

CELEBERRIMÆ

ACADEMIÆ CANTABRIGIENSI,

ARTIUM OMNIUM HUMANIORUM

PATROCINIUM

AMICISSIME SUSCIPIENTI,

OCTAVUM HUNC

NATURÆ VIVARII

FASCICULUM,

D. D. D.

GEORGIUS SHAW,
FREDERICUS P. NODDER.

THE UNIVERSITY

O F

CAMBRIDGE,

THE

FRIEND AND PATRONESS

OF

SCIENCE,

THIS EIGHTH VOLUME

OF THE

NATURALIST'S MISCELLANY,

IS

MOST RESPECTFULLY INSCRIBED,

 $\mathbf{B} \mathbf{Y}$

GEORGE SHAW, FREDERICK P. NODDER.



ANAS LOBATA.

044444644

CHARACTER GENERICUS.

Rostrum lamelloso-dentatum, convexum, obtusum. Lingua ciliata, obtusa.

Lin. Syst. Nat. p. 194.

CHARACTER SPECIFICUS.

ANAS NIGRICANS, transversim griseo-lineata, subtus pallidior, rostro subtus lobato.

Distinguitur hæc avis, jam primo descripta, vultu non tam venusto quam novo et sibi peculiari. Color ejus generalis cinereus est, collo et inferioribus partibus longe pallidioribus, huc illuc obscure maculatis. Per dorsum fusco-nigricans et quasi fuligineum transverse ducuntur lineæ plurimæ albidæ, atomique innumeri concolores, ut cernere est in Caprimulgo Europæo. Præcipuam autem habet avis distinctionis notam, carunculam nigram, planam, orbiculatam, magnam, quæ longitudinalis dependet a mandibula inferiore. Rostri nigri lata est basis, marginibus admodum pestinatis. Nigrant quoque pedes. Cauda acuminata. Rarissima hæc avis in Australasia innascitur, eamque in Britanniam intulit

intulit Dominus Archibaldus Menzies, qui una cum Domino Vancouver iter nauticum nuperrime perfecit, explorationis caufa. Magnitudo est quasi Anatis Boschadis. Asservatur specimen in Museo Britannico.





LOBATED DUCK.

GENERIC CHARACTER.

Bill broad and flattened; the edges marked with fharp lamellæ.

Tongue broad and ciliated at the edges.

SPECIFIC CHARACTER.

BLACKISH DUCK, lineated tranverfely with greyish, paler beneath: the under mandible lobated beneath.

This bird, which is an entirely new and hitherto undefcribed species, is less remarkable for the beauty than the singularity of its appearance. Its general colour is cinereous, which on the neck and lower parts is much lighter than on the upper, as well as marked obscurely by several dusky spots. The back is of a very deep ash-colour, or suliginous blackish; marked with numerous tranverse whitish lines, together with innumerable freckles of a similar colour, not unlike those on the back and wings of the common Goatsucker, or Caprimulgus Europæus; but the most singular character of the bird is a large, black, flat, orbicular slap or wattle, seated longitudinally

tudinally beneath the lower mandible. The bill is broad at the base; much pectinated at the edges, and black: the legs are also of the same colour: the tail is of a sharpened form. This curious species is a native of New Holland, and is about the size of a common Duck. The specimen is preserved in the British Museum, and was brought over by Mr. Archibald Menzies, who accompanied Captain Vancouver in his late voyage.

BUPRESTIS GIGANTEA.

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CHARACTER GENERICUS.

Antennæ filiformes, ferratæ, longitudine thoracis. Palpi quatuor, filiformes; articulo ultimo obtufo truncato.

Caput dimidium intra thoracem retractum.

Lin. Syst. Nat. Gmel. p. 1926.

CHARACTER SPECIFICUS.

BUPRESTIS elytris fastigiatis, bidentatis, rugosis, thorace marginato lævi, corpore inaurato.

Lin. Syst. Nat. p. 659.

CERAMBYX INDIÆ orientalis maximus.

Grew. mus. 165. t. 13.

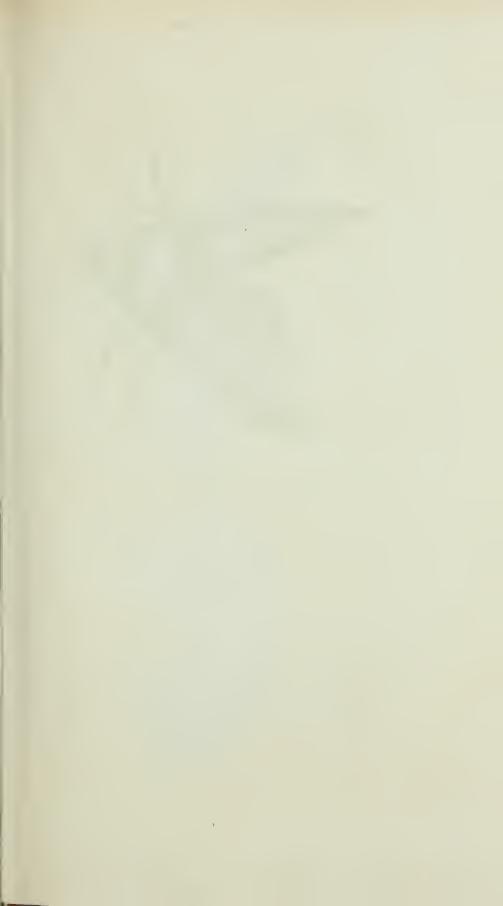
CANTHARIS maxima elytris cuprei coloris fulcatis.

Sloan. jam. 2. p. 210. t. 236. f. 1. 2. BUPRESTIS GIGANTEA.

Degeer. inf. 4. p. 134. n. 1.

Buprestidis generi peculiaris est quidam et quasi metallicus splendor, qui in nonnullis spciebus, exoticis ticis præcipue, adeo dominatur, ut aurum cuprumve fumma arte politum æmuletur. Tinguntur quædam species colore aureo-viridi, cui cedit longe quicquid pigmenti est aut vernicis. Illam de qua jam agitur vincunt multæ fulgido colore, nullæ magnitudine; cumque larvam ejus notaverit et eleganter depinxerit Domina Merian, vifum est ut melius explicetur genus, illam ipfam una cum infecto infpiciendam offerre. Larva ad magnitudinem qua depingitur crefcere, et prope radices plantarum degere folet. Plene aucta dormit ad tempus cava fub humo, cuteque exteriore exuta, in pupam feu chryfalidem mutatur, e qua, elapfo quodam spatio, emergit infectum perfectum; cujus color generalis est quasi cupri politi, thoracis elytrorumque marginibus plus minus viridi tinctis. Elytrorum fuperficies est paulum fcabrofa et rugofa, ftriis aliquot in longitudinem ductis quasi costata.

Notandum est antennas Buprestidis giganteæ non mere setaceas esse, ut plerisque ejusdem generis, sed lamellis paululum pectinari. Americam Australem incolit pulcherrimum hoc insectum.





THE

GREAT BUPRESTIS.

GENERIC CHARACTER.

Antennæ filiform, and fometimes ferrated; of the length of thorax.

Feelers or Palpi filiform: with the last joint obtuse or truncated.

Head partly retracted under the thorax.

SPECIFIC CHARACTER.

COPPER-COLOURED BUPRESTIS with a gloss of green-gold; the wing-shells wrink-led, and bidentated at the extremities.

The GREAT COPPER-COLOURED BU-PRESTIS.

The GREAT GOGGLE-EYED BEETLE.

Grew's Museum Reg. Soc. Merian Sur. pl. 50.

The genus Buprestis is remarkable for the metallic splendor by which most of the exotic species are distinguished; and which in some is so great as to equal the appearance of the most highly-polished gold

gold or copper: others are ornamented with a tinge of golden green, which far exceeds the appearance of all artificial painting or varnish. The present species, though less rich in colour than several others, is the largest of the whole genus; and as its larva has been observed and well figured by Madam Merian, I have thought it not improper, as an elucidation of the genus, to add the larva as reprefented by that lady, to the figure of the compleat infect. This larva grows to the fize represented, and refides near the roots of plants: when fully grown, it lies dormant for fome time in a fmall cavity beneath the furface of the ground, and, casting its exterior skin, becomes a pupa or chrysalis, out of which, after a certain space, proceeds the perfect infect. Its general colour is that of highlypolished copper; the edges of the thorax and wingcases tinged more or less with green. The wingcases are of a roughish or wrinkled surface, and flightly ribbed longitudinally. It is to be also obferved that the antennæ, which in most of the genus are simply setaceous, are in the present species of a fomewhat lamellated or pectinated appearance. This beautiful infect is a native of South America.

CHITON SQUAMOSUS.

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CHARACTER GENERICUS.

Animal Doris.

Testæ plures, longitudinaliter digestæ dorso incumbentes.

Lin. Syst. Nat. p. 1106.

CHARACTER SPECIFICUS, &c.

CHITON testa octovalvi semistriata, margine squamuloso.

CHITON testa octovalvi semistriata, corpore squamuloso.

Lin. Muf. Ulr. 465.

CHITON squamosus, testa septemvalvi.

Chemn. Chiton. t. 1. f. 4.

Rupibus adhæret, ut plurimum, genus Chiton, patellarum more; continetque species satis numero-sas, quibus si negarit natura pulchritudinem, miram certe concessit conformationem, e plurimis quasi zonis testaceis constantem. Oras incolit Americanas species quam depinximus, inter maximas habita sui

fui generis: color ejus cæruleo-virescens venulis atomisque obscurioribus variatur.

Suave est philosopho contemplari generalem quandam similitudinem, quæ interdum mira et manisesta est in animalibus penitus diversis, nec ulla assinitate inter se conjunctis. In hoc ipso scilicet Chitonis genere, testa qua obducitur animal loricæ simillima est qua muniuntur Dasypodes. Quod contigit quoque insectis quæ continet Onisci genus; quorum species communis, quæ et officinalis dicitur, hanc ipsam ob causam nomine Linnæano Oniscus Armadillo nuncupatur.





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THE

SCALY CHITON.

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GENERIC CHARACTER.

Animal refembling a Doris.

Shell confifting of feveral fegments disposed longitudinally in the back.

SPECIFIC CHARACTER.

CHITON with the shell commonly consisting of eight valves; the margin scaly.

The genus Chiton is generally found adhering to rocks, like fome of the Lepades. The species, which are pretty numerous, are less remarkable for beauty than for singularity of structure; being composed of several distinct shelly bounds. The species here represented is one of the largest, and is a native of the American coasts. Its general color is a blue-ish green, variegated with veins and specks of darker and lighter colors. It is curious to contemplate the similarity in point of general form, which sometimes takes place between animals of the most distant tribes, and which have no real assinity to each other. Thus in the present genus, the inhabiting animals are covered with an armour resembling that

of the Dafypodes or Armadillos amongst quadrupeds; and the infects of the genus Oniscus are formed on a similar plan; the officinal or common species in particular, which has obtained its trivial name from this very circumstance.

PSITTACUS PALLIDUS,

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CHARACTER GENERICUS.

Rostrum aduncum: mandibula inferiore mobili; cera instructa.

Nares in rostri basi.

Lingua carnofa, obtufa, integra.

Pedes scansorii.

Lin. Syst. Nat. p. 139.

CHARACTER SPECIFICUS, &c.

PSITTACUS FLAVUS, alis albidis rofaceo leviter tinctis, virescenteque, pro luce, variatis.

In Australasia innascitur nova hæc species, cujus vera magnitudo in tabula depingitur.

THE

PALE PARRAKEET.

GENERIC CHARACTER.

Bill hooked: upper mandible moveable.

Nostrils round, placed in the base of the bill.

Tongue sleshy, broad, blunt at the end.

Legs short. Toes formed for climbing, viz.

two toes forward, and two backward.

SPECIFIC CHARACTER.

YELLOW PARRAKEET with whitish wings, flightly tinctured with rose-color, and with a cast of greenish according to the direction of the light.

This bird, which is a native of Australasia, is entirely new, and is represented in its natural size.





MEDUSA ANDROMEDA.

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CHARACTER GENERICUS.

Corpus gelatinosum, orbiculatum, depressum. Os subtus, centrale.

Lin. Syst. Nat. p. 1096.

CHARACTER SPECIFICUS.

MEDUSA fusco-pallens, brachiis subtus octo ramosissimis soliaceis.

MEDUSA hemisphærica, marginis brachiis nullis, brachiis octo teretibus ramosissimis inferius soliaceis.

> Lin. Syst. Nat. Gmel. p. 3157. Forsk. F. Ægypt. Arab. p. 106. n. 18.

Major sæpenumero est Medusa Andromeda, quam hæc quæ in tabula ostenditur. Color communis est substavo-susception, habens interdum aliquid subcærulei. Pellucet sere totum animal; nec modicam ei affert pulchritudinem artuum seu tentaculorum e medio corpore provenientium quasi ramulosa divisio. In mari rubro invenitur.

EGYPTIAN MEDUSA.

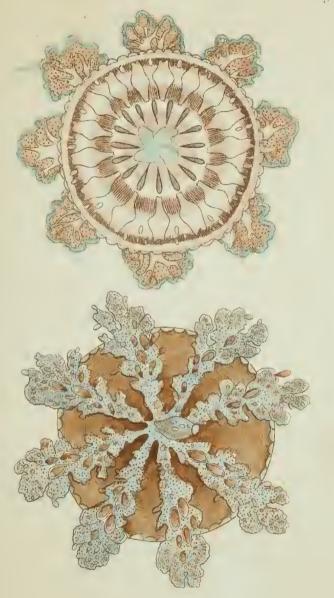
GENERIC CHARACTER.

Body gelatinous, orbicular, commonly depressed. Mouth central, beneath.

SPECIFIC CHARACTER.

PALE-BROWN MEDUSA, with eight ramified foliaceous tentacula beneath.

The Medufa Andromeda is frequently found confiderably larger than represented on the present plate. Its general color is a pale yellowish-brown, sometimes inclining to blueish. The whole animal has a considerable degree of transparency, and is remarkable for the elegantly ramified subdivisions or processes of the limbs or tentacula proceeding from the lower part of the body. It is a native of the Red sea.





HOLOTHURIA INHÆRENS.

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CHARACTER GENERICUS.

Corpus liberum, nudum, gibbum, ano terminali. Tentacula plura in altera extremitate.
Os inter tentacula.

Lin. Syst. Nat. p. 1089.

CHARACTER SPECIFICUS.

HOLOTHURIA fusca, tentaculis duodenis, corpore lineis longitudinalibus pallidis.

HOLOTHURIA tentaculis duodenis, corpore papillofo fexfariam lineato.

Lin. Syft. Nat. Gmel. p. 3141.

FISTULARIA RECIPROCANS.

Forsk. F. Ægypt. Arab. p. 121. t. 38. f. A.

Differt a cæteris plerisque congeneribus hæc Holothuria, quod longior multo sit et gracilior. Color plerumque susco-faturatior, in longitudinem ductis pluribus lineis pallidioribus, non semper tamen clare conspicuis. Aspergitur superficies totius animalis papillis seu tuberculis innumeris minutissimis, sine

fine vitro optico ægre cernendis; quorum ope tangentis manus arcte adeo adhæret, ut ab ea non fine labore possit sejungi. Generant hanc Holothuriam plagæ orientales.





BROWN HOLOTHURIA.

GENERIC CHARACTER.

Body unfixed, naked, gibbous, with an open extremity.

Tentacula numerous, furrounding one extremity. Mouth fituated amidst the tentacula.

SPECIFIC CHARACTER.

BROWN HOLOTHURIA with twelve red tentacula: the body marked with longitudinal pale stripes.

This species is of a much longer and slenderer form than most others of the genus: its color is commonly a darkish brown, with several longitudinal stripes of a lighter cast, and which are not always distinctly visible. The surface of the whole animal is closely beset with innumerable papillæ, scarcely visible without the affistance of a glass. By means of these it adheres tenaciously to the hand on touching, so as with dissiculty to be separated from the skin. It is a native of the Eastern parts of the world.



MOTACILLA SIALIS.

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CHARACTER GENERICUS.

Rostrum subulatum, rectum: mandibulis subæ-qualibus.

Nares obovatæ.

Lingua lacero-emarginata.

Lin. Syst. Nat. p. 328,

CHARACTER SPECIFICUS, &c.

MOTACILLA cærulea, fubtus rufa.

MOTACILLA cærulea, fubtus tota rubra, ab-domine albo.

Lin. Syft. Nat. p. 336. Lin. Syft. Nat. Gmel. p. 989.

RUBECULA CAROLINENSIS.

Briff. av. 3. p. 423.

AVIS CÆRULEA.

Kalm. it. 3. p. 30.

RUBECULA AMERICANA CÆRULEA.

Catesb. 1. p. 47. t. 47.

Motacilla Sialis, eadem quasi magnitudine ac Motacilla Rubecula, aut paulo ampliore, Americam septentrionalem inhabitat; præcipue Carolinam. Tota avis amoene cærulea est, exceptis pectore et abdomine leviter rubentibus, remigibusque alarum primoribus apice sere nigricantibus. Rostrum nigrum. Pedes susci. Insectis vescitur more reliqui generis.



. THE

BLUE REDBREAST.

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GENERIC CHARACTER.

Bill fubulate, strait; mandibles nearly equal.

Nostrils nearly oval.

Tongue jagged or lacerated towards the tip.

SPECIFIC CHARACTER, &c.

BLUE MOTACILLA, rufous beneath.

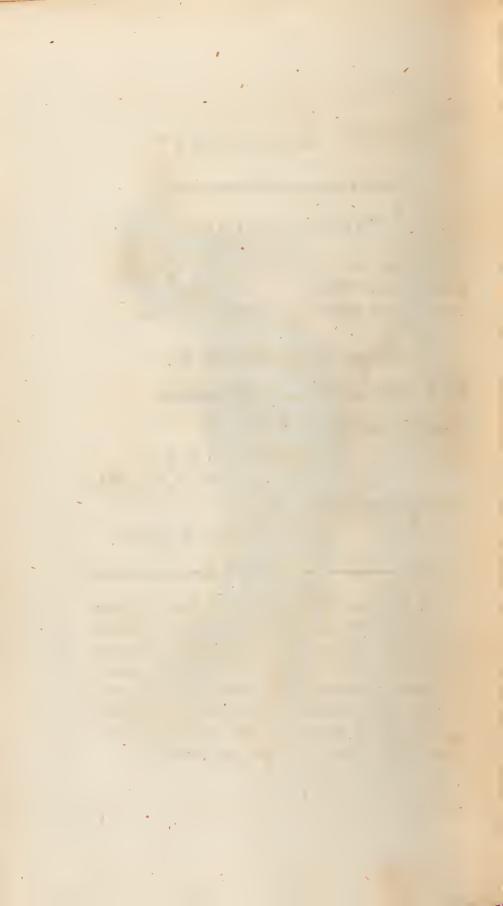
The BLUE WARBLER.

Lath. Syn. 4. p. 446. Pennt. Arct. Zool. 2. No. 282.

The BLUE REDBREAST.

Edw. 1. pl. 24.

This bird, which is about the fame fize with the common Redbreast, or rather larger, is an inhabitant of North America, and is principally seen in Carolina: the whole bird is of a fine blue, the breast and abdomen excepted, which are of a light red, and the tips of the principal wing-feathers, which are dusky; the bill is black, and the legs brown. It feeds on insects, like the rest of this genus.



CYPRINUS BUPHTHALMUS.

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CHARACTER GENERICUS.

Caput ore edentulo; Os nafale, bifulcum.

Membrana branchiostega radiis tribus.

Corpus læve.

Pinnæ ventrales sæpe novemradiatæ.

Lin. Syst. Nat. p. 525.

CHARACTER SPECIFICUS, &c.

CYPRINUS fanguineus, oculis prominentibus, pinnis omnibus dimidiato-albis, cauda trifida.

CYPRINUS oculis prominentibus.

Bloch. aufl. Fifch 12. p. 9. t. 410.

LONG-TSING-YU.

Sinensibus.

Rutilante infignem corpore Cyprinum buphthalmum generat regio Sinensis. Magnitudine Cyprinum auratum, cui maxime assinis, æquat vel paulo superat.

TELESCOPE CARP.

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GENERIC CHARACTER.

Mouth (in most species) toothless. Gill-membrane with three rays. Body smooth.

SPECIFIC CHARACTER, &c.

SCARLET CARP, with protuberant eyes, all the fins half white; the tail trifid.

The SCARLET CARP.

The GOGGLE-EYED CARP.

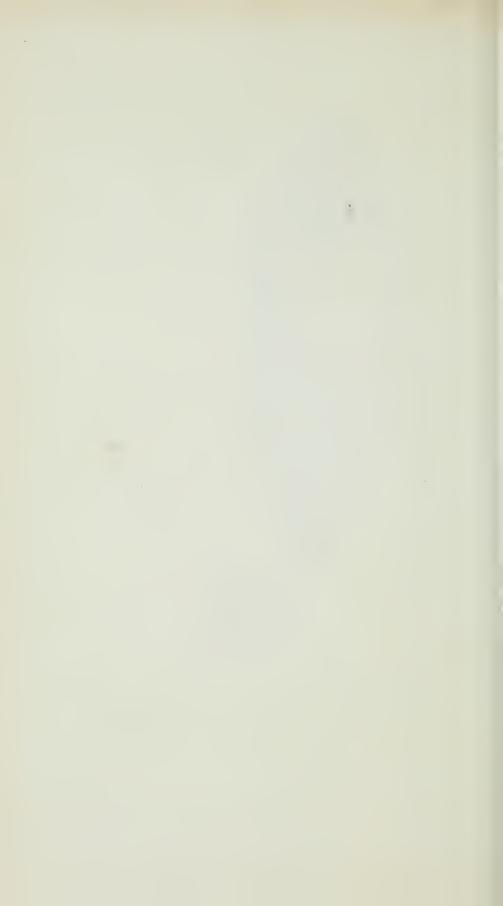
The TELESCOPE.

OEIL de DRAGONS.

Sauvigny, Hist. Nat. des Dorades, pl. 10, 11, 12, &c.

The fcarlet Carp, fo remarkable for its brilliant color, is a native of China, and is equal, if not fuperior, in fize to the common gold-fish, to which it is extremely nearly allied.





PHALÆNA LUNA.

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CHARACTER GENERICUS.

Antennæ setaceæ, a basi ad apicem sensim attenuatæ.

Alæ (fedentis) fæpius deflexæ. (Volatu nocturno.) Lin. Syst. Nat. p. 808.

CHARACTER SPECIFICUS, &c.

PHALÆNA alis viridi-pallentibus, inferioribus caudatis; omnibus ocello difci lunato.

PHALÆNA alis caudatis concoloribus virefcentibus; ocello difci lunato.

Lin. Syst. Nat. Gmel. p. 2404.

PHALÆNA LUNA.

Lin. Syst. Nat. p. 810. Cramer. 1. t. 2. A. & 3. t. 31. A. B. Drury inf. 1. t. 24.

Infolitæ est pulchritudinis Phalæna Luna, alis omnibus pulcherrime viridi-pallentibus, superiorum margine antico susco-purpureo. Alæ posticæ excurrunt quasi in caudas. Alarum omnium mediam partem

partem ornat macula hyalina, non abfimilis oculo. Generat phalænam Lunam America feptentrionalis, variæque partes provinciarum Britannicarum, nuperrime fæderatarum.





LUNA.

GENERIC CHARACTER.

Antennæ or Horns setaceous, decreasing in size from the base to the point.

Wings, when at rest, generally deflected.

Flight mostly nocturnal.

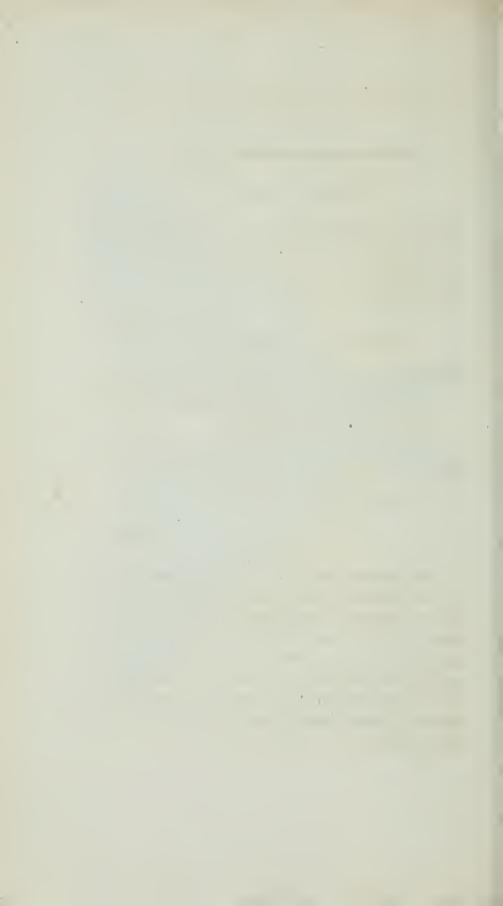
SPECIFIC CHARACTER, &c.

LARGE PEA-GREEN PHALÆNA, with the lower wings tailed, and a lunated transparent fpot on each wing.

The large caudated pea-green PHALÆNA.

The pea-green CAROLINA MOTH.

The Phalæna Luna is an infect of unufual elegance. The wings are of a beautiful pea-green; the upper edge of the fuperior pair marked by a band of purplish-brown: the lower ones are terminated by a pair of lengthened processes or tails, and in the middle of each wing is a transparent spot, resembling an eye. It is a native of North America, and is found in many parts of the United British States.



GORGONIA SANGUINOLENTA.

CHARACTER GENERICUS.

Animal crescens plantæ facie. Stirps cornea, ossea, vel lapidea. Cortex mollis, osculis polypiseris.

CHARACTER SPECIFICUS, &c.

GORGONIA depressa ramosissima dichotomopinnata, corticis slavi poris distichis purpureis.

Pall. el. 200ph. p. 175.

GORGONIA SANGUINOLENTA.

Lin. Syft. Nat. Gmel. p. 3087.

Luculente adeo et accurate explicuit hanc speciem celeberrimus Pallas in opere cui titulus *Elenchus Zoophytorum* ut ipsissima auctoris verba sine ulla immutatione transcribere non dubitaverim.

"Magnitudo pedalis vel ultra, multa tamen specimina palmo non altiora occurrunt. Truncus in eodem constanter plamo ramosus; Rami pinnati, ramulis passim sine ordine dichotomis, subdivisis, sape

fæpe fastigiatis. Stirps tota depresso-plana. Lignum corneum, colore et substantia. Cortex calcareus, citrinus, extus lævis. Pori crebri, ramulis prominuli, in marginibus ramorum duplici utrinque serie dispositi, sparsive, halone ruberrime roseo inclusi. Pumila specimina pinnata, procera ramosiora sunt."





PURPLE-SIDED GORGONIA.

GENERIC CHARACTER.

Animal growing in the form of a plant.

Stem of a horny, offeous, or even lapideous fubftance.

Bark foft, marked with numerous polype-cells.

SPECIFIC CHARACTER, &c.

Flat, branched, pinnated GORGONIA, with yellow bark and double-rowed purple pores.

Purple-spotted yellow GORGONIA.

The description of this Gorgonia, by Dr. Pallas, is so accurate, that it is unnecessary to add any thing to the account given by that celebrated Naturalist, who informs us that it sometimes grows to the height of a foot or more; though specimens often occur of much inferior size. The trunk is always branched a flat direction, with the branches pinnated; the smaller ones occasionally subdivided and dichotomous. The body or wood is of a horny substance and color; the bark yellow and smooth; the pores numerous, and projecting in the form of tubercles, disposed

disposed in a double series on the margins of the branches, each being surrounded by a very bright rose-coloured or purple border. The smaller specimens are commonly pinnate; the larger ones more ramissed. This elegant coral is a native of the Atlantic and of the American seas.



CAPRIMULGUS LONGIPENNIS.

CHARACTER GENERICUS.

Rostrum modice incurvum, minimum, subulatum, basi depressum.

Vibrissa ad os serie ciliari.

Rictus amplissimus.

Lingua acuta, integerrima.

Lin. Syst. Nat. p. 118.

CHARACTER SPECIFICUS.

CAPRIMULGUS GRISEO-VARIUS, alis rufo fuscoque maculatis, penna utrinque humerali denudata longissima.

Conari pro certo dicere quid fibi voluerit arcanum Naturæ confilium in anomala nonnullorum animalium conformatione, opus effet immensum et omnino inexplicabile. Enormis Phoenicopteri colli crurumque longitudo, rostrum Avocettæ flexile et recurvum, nec non Pinguinariarum alæ breves et velut squamatæ; hæc omnia facile satis referri possunt ad vitæ rationem quæ hisce avibus peculiaris est et accommodata. Frustra autem torquebimur quærendo, cuinam

cuinam usui inserviant pennæ nudæ et prælongæ quas utrinque gerit collum Paradiseæ auratæ; illæve quæ proveniunt a lateribus Paradiseæ apodæ; seu alarum Grylli qui monstrosus dicitur gyri et volumina; aut immodici processus alarum Phalænæ macrouræ. Nec selicius inquiramus quo animo dederit Natura avi quam cernere est in tabula pennam longissimam, denudatam, quæ ab humero utroque e medio tectricum minorum exoritur, bis saltem superans longitudinem totius avis. Extremitates solæ plumatæ sunt, penna ipsa nigra levissime per totam longitudinem barbata; apicibus plumatis nigricantibus, ter quater cinereo transverse sasciatis.

Color avis generalis obscure cinereus, maculis atomisque nigris, rusis, albidisque belle guttatus. Alæ ferrugineæ fasciis confertis nigricantibus notantur, exceptis tectricibus minoribus. Vertex capitis nigrior reliquo copore. Pectus et abdomen ferrugineo-pallida strias habent maculasque plurimas nigricantes transversim ductas. Collum posticum cingit quasi collare ferrugineum. Alæ paulo longiores cauda cinerea, fasciis atomisque nigricantibus distincta. Pedes exigui; unguis intermedii latere fortiter ferrato. Nova proculdubio est avis, nec antea descripta. A Sierra Leona delatum est specimen quod depinximus. Magnitudo est quasi Sturni vulgaris.





Landon Lublished Dec. 1867.96 by LL Sodder 270.192 Newman Street, near Oxford Street:

LEONA GOATSUCKER.

GENERIC CHARACTER.

Bill very fmall, depressed at the base, slightly hooked.

Mouth extremely wide; the fides furnished with a feries of briftles.

SPECIFIC CHARACTER.

VARIEGATED GREY GOATSUCKER, with wings fpotted rufous and black, with a very long naked-shafted feather on each shoulder.

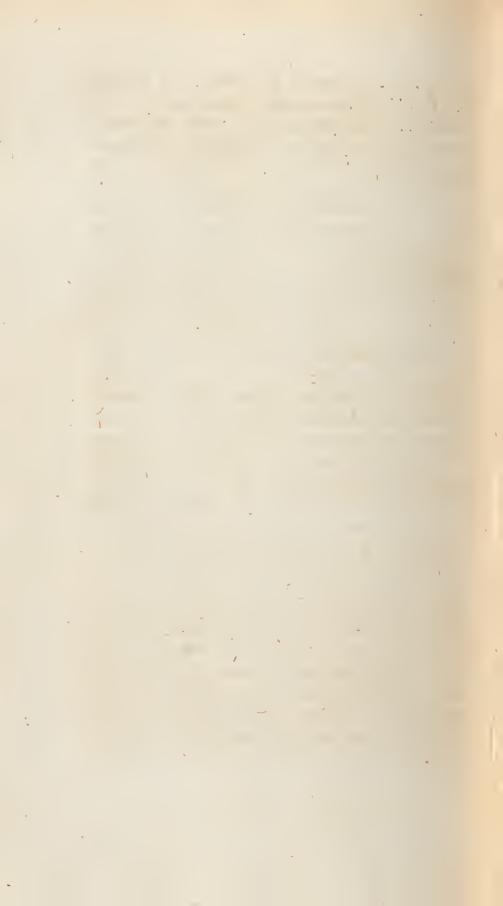
In the formation of some animals we meet with particulars so inexplicable as to baffle all attempts at pointing out the purposes for which Nature intended them.

The immoderate length of neck and legs in the Flamingo, the recurved and flexible bill of the Avocet, the short and scaly wings of the Penguin, are evidently calculated for the well-known manner

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of life in the respective animals: but it would be in vain to enquire into the particular use of the long, fhaft-like feathers which project from each fide the neck of the Paradifea aurata, or those which hang from the fides of the Paradifea apoda: for the strange and uncouth convolutions in the wings of the Gryllus monstrofus; or the extravagant processes which terminate those of the Phalæna macroura. The bird which forms the fubject of the prefent plate may also be adduced as an equally fingular example of the above inexplicable formation; its principal character confifting in the excessively long naked fhafts projecting from the upper part of each shoulder, in the midst of the smaller coverts. These remarkable feathers are at least twice the length of the whole bird, and are webbed only at their extremities: the naked or shafted part is black, very flightly bearded on each fide the whole length; and the webbed or plumed ends are dufky or blackish with three or four obfcure cinereous transverse bars. The general color of the bird is is a blackish grey, elegantly variegated with fpecks of black, rufous, and whitish: the wings are ferruginous, all the feathers, except the fmaller coverts, being marked with numerous blackish bars: the top of the head is darker than the rest of the bird: the under parts are pale ferruginous, dashed with dusky bars and patches, and round the back of the neck runs a fort of ferruginous collar or band. The wings reach beyond the tail, which is cinereous, with blackish bars and freckles: the feet are very fmall, with the middle

middle claw very strongly serrated on the interior side. This bird is an undoubted non-descript, and is a native of Sierra Leona, from whence the specimen here sigured was recently imported. Its size is that of a Starling.



COLUBER FASCIATUS.

©++++++++++++++++++++++++++

CHARACTER GENERICUS.

Scuta abdominalia.
Squamæ fubcaudales.

Lin. Syst. Nat. p. 275.

CHARACTER SPECIFICUS, &c.

COLUBER CÆRULEUS, fubtus pallidior, cæruleo lucidiore variatus.

COLUBER FASCIATUS?

Lin. Syst. Nat. p. 378.

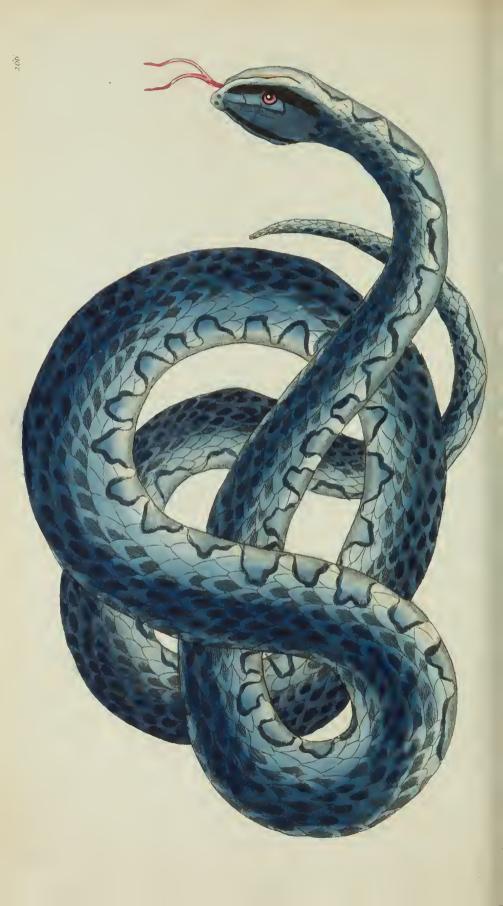
ANGUIS e cæruleo et albo varius.

Catesb. 2. t. 58.

Historiam naturalem probe callentibus facile patebit a Catesbæo mutuatos esse nos siguram hujus serpentis, situ paululum mutato. Eadem communiter putatur hæc species ac coluber fasciatus Linnæi; ipseque Linnæus, nonnihil tamen addubitans, relegat lectores ad hanc ipsam Catesbæi tabulam. Si veros colores depinxerit Catesbæus, habendus pro-

proculdubio est coluber fasciatus inter formosissimos sui generis. Reperiri præcipue dicitur in Carolina, et in numero esse serpentum prorsus innocuorum.





FASCIATED SNAKE,

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GENERIC CHARACTER.

Transverse Lamellæ under the abdomen. Broad alternate Scales under the tail.

SPECIFIC CHARACTER, &c.

BLUE SNAKE, paler and variegated with brighter blue beneath.

The WAMPUM SNAKE.

Catesb. Car. 2. t. 58.

It will readily be perceived by those who are conversant in natural history, that the elegant snake represented on the present plate is in reality copied from Catesby, with the variation only of posture: it is commonly considered as the coluber fasciatus of Linnæus, and is thus quoted, though not without a mark of uncertainty, in the Systema Naturæ. If the colours of the living animal are really such as expressed by Catesby, it must certainly be regarded as one

one of the most beautiful of that variable tribe. It is said to be found principally in Carolina, and is a perfectly harmless species.

SQUALUS ZYGÆNA:

CHARACTER GENERICUS.

Spiracula quinque ad latera colli. Corpus oblongum teretiusculum. Os in anteriore capitis parte.

Lin. Syst. Nat. p. 397.

CHARACTER SPECIFICUS, &c.

SQUALUS capite latissimo transverso malleisormi,

Lin. Syft. Nat. p. 399.

LIBELLA.

Salvian. pifc. 128.

ZYGÆNA:

Rondel. pifc. 389. Will. icht. 55.

Monstrosa capitis sigura facile a reliquis omnibus piscibus distinguitur Zygæna Libella, quæ ad longitudinem interdum sexpedalem crescit, et in mari Mediterraneo præcipue invenitur.

HAMMER-HEADED SHARK.

GENERIC CHARACTER.

Spiracula five on each fide the neck.

Body oblong, fomewhat cylindric.

Mouth fituated beneath, in the fore part of the head.

SPECIFIC CHARACTER, &c.

SHARK with transverse hammer-shaped head, The ZYGÆNA.

The BALANCE-FISH.

This fish is readily distinguished from all others by the strange and uncouth shape of its head. It sometimes grows to the length of six seet, and is principally seen in the Mediterranean.





BULLA VIRGINEA.

<u>Q</u>

CHARACTER GENERICUS.

Animal limax.

Testa univalvis, convoluta, inermis.

Apertura subcoarctata, oblonga, longitudinalis.

Columella obliqua, lævis.

Lin: Syst. Nat. p. 1181.

CHARACTER SPECIFICUS, &c.

BULLA ALBA, fasciis versicoloribus duplicatis, columella truncata purpurea.

BULLA TESTA fubturrita erecta, columella truncata fanguinea.

Lin. Syst. Nat. p. 1186.

BUCCINUM VIRGINEUM.

Lin. Muf. Lud. Ulr. n. 267.

In Asiæ sluviis præcipue reperta sedem sibi vindicat hæc concha inter pulcherrimas sui generis. Colore interdum variat; notas tamen semper retinet certas adeo et constantes, ut de specie non possit dubitari.

RIBBAND BULLA.

GENERIC CHARACTER.

Animal refembling a Limax or Slug.

Shell univalve, convoluted.

Aperture fomewhat straitened, oblong, longitudinal, entire at the base.

Column oblique and smooth.

SPECIFIC CHARACTER, &c.

WHITE BULLA, with particoloured double bands, and purple truncated column.

The STRIPED BULLA.

The PAINTED BULLA.

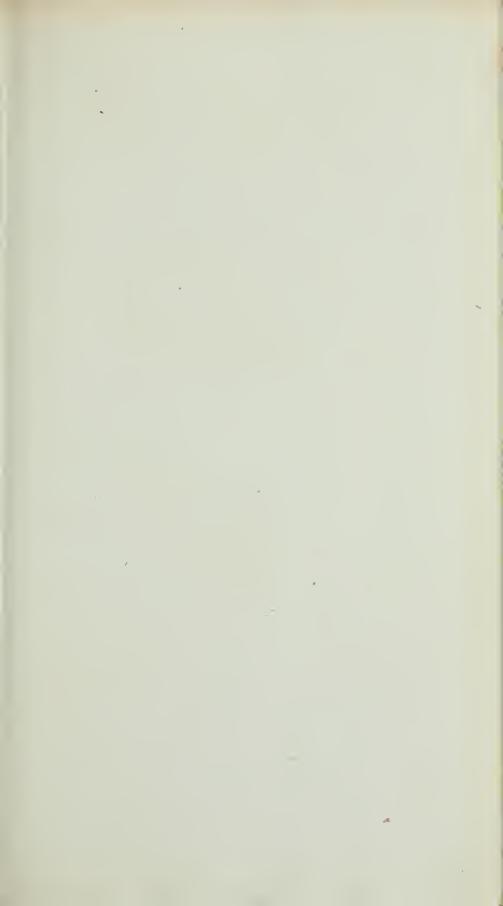
This beautiful shell, which is justly considered as one of the most elegant of the genus, is principally found in the rivers of Asia. It varies sometimes in its colors, but always retains characters sufficiently clear to determine the species.





RN







ALCEDO CÆRULEA.

CHARACTER GENERICUS.

Rostrum trigonum, crassum, rectum, longum. Lingua carnosa, brevissima, plana, acuta. Pedes gressorii plerisque.

Lin. Syft. Nat. p. 178.

CHARACTER SPECIFICUS, &c.

ALCEDO CÆRULEA, fubtus rufa, humeris uropygioque viridibus, fuperciliis et torque albis.

ALCEDO CÆRULEA, fubtus rufa, fuperciliis et torque albis.

Lin. Syst. Nat. Gmel. p. 454.

ALCEDO CÆRULEA.

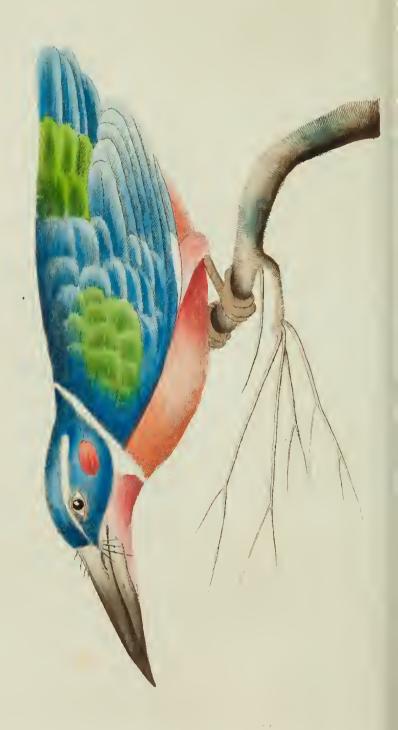
Lath. ind. orn. p. 249.

ISPIDA INDICA torquata.

Brifs. 4. p. 481. t. 37. f. 2. A.

In India innafcitur Alcedo cærulea, Alcedinem Europæam feu Ifpidam magnitudine fuperans: caput E dorfumdorsumque vestiunt pennæ cæruleæ splendidissimæ; alarum tectrices minores uropygiumque pulchre virent; pectus et abdomen rusescunt; rostrum pedesque nigricant.





WHITE-COLLARED KINGFISHER.

GENERIC CHARACTER.

Bill trigonal, thick, strait, long, sharp-pointed. Tongue sleshy, very short, slat, sharp-pointed. Feet (in most species) gressorial.

SPECIFIC CHARACTER, &c.

BLUE KINGFISHER, rufous beneath, with green shoulders and rump, a white collar round the neck, and a white streak over the eyes.

WHITE-COLLARED KINGFISHER.

Lath. Syn. p. 620.

The white-collared Kingfisher is a native of India: in fize it exceeds the common or European Kingfisher: the head and back are of a rich and beautiful blue: the shoulder-feathers or smaller wing-coverts and the rump of a bright green: the breast and abdomen rusous; the bill and feet dusky.



NAIS SERPENTINA.

CHARACTER GENERICUS.

Corpus repens, longum, lineare, pellucidum, depressum.

Pedunculi setis simplicibus.

Tentacula nulla.

Oculi duo aut nulli.

Lin. Syst. Nat. Gmel. p. 3120.

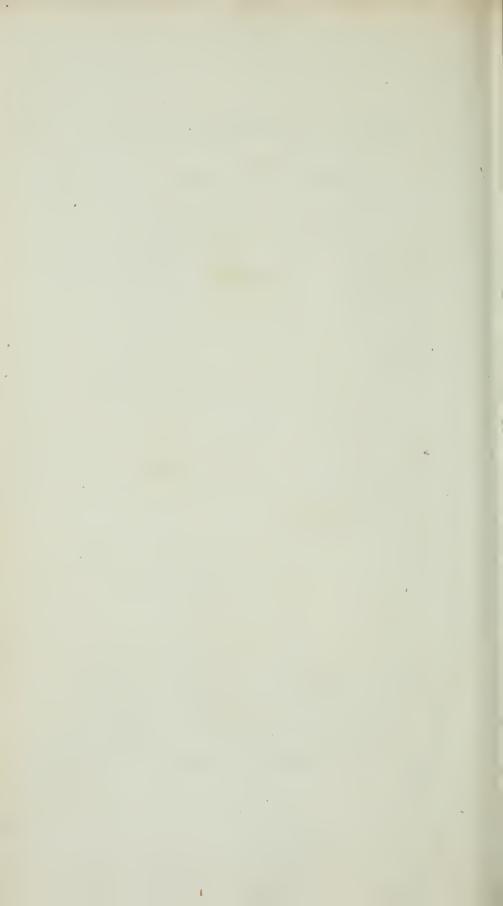
CHARACTER SPECIFICUS, &c.

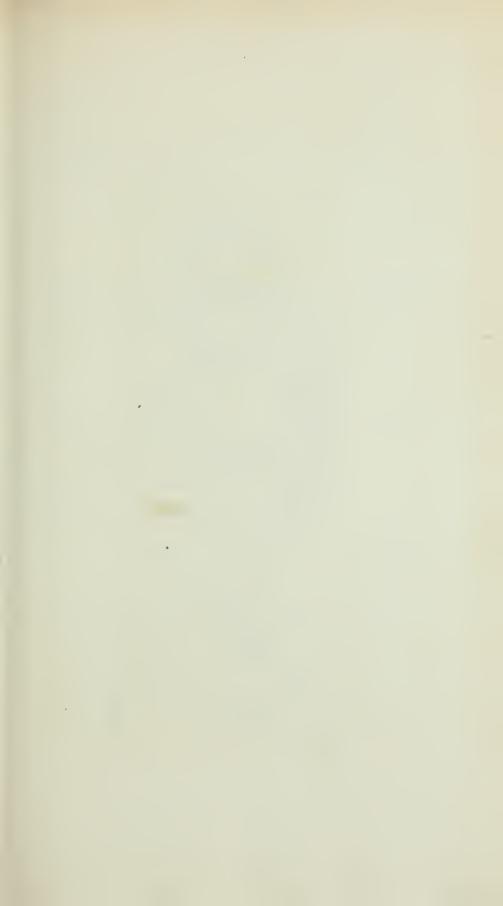
NAIS PELLUCIDA, intestino spirali rubro, collari triplici nigro.

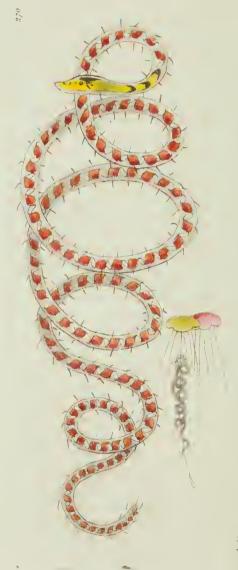
NAIS SERPENTINA.

Lin. Syst. Nat. Gmel. p. 3121. Roef. ins. 3. p. 567. t. 92.

Spargit se genus *Nais* in parva animalia, aquas plerumque dulces amantia. Horum nonnullæ species, qualis est ea quam depinximus, examinari satis accurate nequeunt sine microscopio. Depingitur hæc species, quam frequentem alunt aquæ stagnantes, tum sua magnitudine, tum microscopice aucta.







4.4.

SERPENTIFORM NAIS.

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GENERIC CHARACTER.

Body repent, long, linear, pellucid, depressed. Bristles on each side, instead of seet. Tentacula none.

SPECIFIC CHARACTER, &c.

PELLUCID SNAKE-LIKE NAIS, with red fpiral intestine and triple black collar.

The COLLARED WATER-WORM.

The SNAKE NAIS.

The genus Nais confifts of small animals, which in general are natives of fresh waters: some species are not to be distinctly examined without the assistance of glasses: amongst these is the animal here represented, both in its natural size, and as it appears when magnissed: it is not uncommon in stagnant waters.



PAPILIO HECTOR.

•*********

CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavatocapitatæ.

Alæ (fedendis) erectæ furfumque conniventes. (Volatu diurno.)

Lin. Syst. Nat. p. 744.

CHARACTER SPECIFICUS, &c.

PAPILIO alis caudatis concoloribus nigris; primoribus fascia interrupta alba; posticis maculis lunatis coccineis.

PAPILIO alis caudatis concoloribus nigris: primoribus fascia alba; posticis maculis rubris.

Lin. Syst. Nat. p. 745.

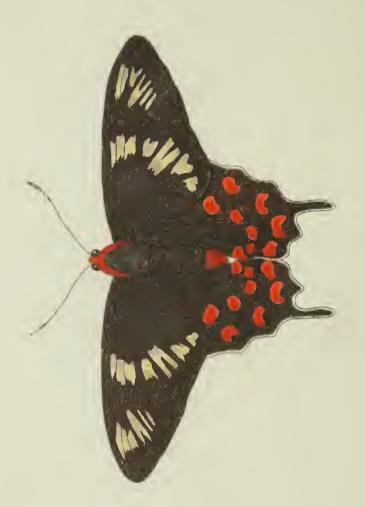
PAPILIO HECTOR.

Lin. Fabr. Cram. Gmel. &c. &c. &c.

Inter lautissimos papiliones exoticos habetur papilio Hector quem alit India. Tabula eum exhibet magnitudine naturali.







HECTOR.

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GENERIC CHARACTER.

Antennæ thickening towards the upper part, and generally terminating in a knob.

Wings (when fitting) erect. (Flight diurnal.)

SPECIFIC CHARACTER, &c.

BLACK BUTTERFLY with tailed wings: the upper pair marked by a broken white band; the lower by numerous crescent-shaped crimfon spots.

The crimfon-spotted INDIAN BUTTERFLY.

This infect is one of the finest of the exotic butterslies, and is a native of India: the plate represents it in its natural size.



ALCYONIUM ARENOSUM.

•

CHARACTER GENERICUS.

Animal (plerumque) plantæ forma crefcens. Stirps fixa, carnofa, gelatinofa, fpongiofa, vel coriacea, ofculis polypiferis obsita.

CHARACTER SPECIFICUS, &c.

ALCYONIUM fimplex femicirculare arenofolutofum.

ESCHARA LUTOSA.

Pall. el Zooph. p. 37. n. 5.

Eschara MILLEPORA arenosa Anglica.

Raii syn. p. 31.

FLUSTRA ARENOSA.

Lin. Syst. Nat. Gmel. p. 3829.

FLUSTRA ARENOSA.

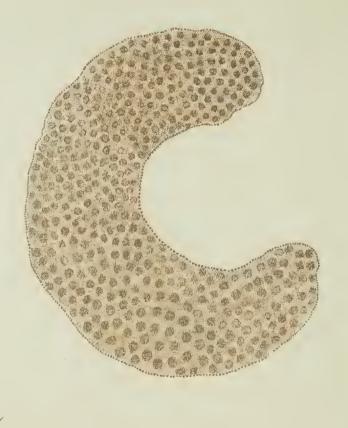
Soland. et Ell. Zooph. p. 17

Miram hanc fubstantiam, quam in Escharis numeravit Pallas, in Milleporis Ellisius? in Flustris Gmelinus, qui systema naturæ Linnæanum auctius edidit, nullus

nullus dubito in Alcyonii genere reponere. Adhæret plerumque radicibus fucorum majorum; circa littora Britanniæ feptentrionalis minime rara; femper retinens figuram femicircularem. Substantia est multo leviori et magis friabili quam cætera pleraque Alcyonia, et constare videtur ex arena glutine animali connexa. Cellulæ polypos recipientes qui putantur massam ædificasse, majusculæ sunt, nec profundæ, sed potius superficiariæ. Color totius leviter susceptiavet. Ostendit tabula veram magnitudinem.







SANDY ALCYONIUM.

GENERIC CHARACTER.

Animal (commonly) growing in the form of a plant.

Substance more or less fleshy, gelatinous, spongy, or coriaceous: beset with polype-cells.

SPECIFIC CHARACTER.

Flat fandy ALCYONIUM of a femi-circular form.

Horfe-shoe MILLEPORE.

English fandy MILLEPORA.

Ellis corallin. p. 74.

I have not the flightest hesitation in ranking this curious substance under the genus Alcyonium, rather than that of Eschara, in which it is placed by Pallas, of Millepora, in which it is stationed by Ellis? or lastly, in that of Flustra, in which it is arranged by Gmelin in his enlarged edition of the Systema Naturæ of Linnæus. It is represented in its natural size, and is generally found attached to the roots of the

the larger fuci: it is not uncommon about the northern parts of the British coasts, and always preferves its semicircular shape. Its texture is much slighter than that of most others of this genus, seeming to consist of fandy particles connected by an animal gluten: the cells or cavities, in which are supposed to reside the polypes, or fabricators of the mass, are rather large than small, and are not very deeply impressed, but rather superficial. Its colour is a pale yellowish brown.

CORACIAS INDICA.

�*********

CHARACTER GENERICUS.

Rostrum cultratum apice incurvato, basi pennis denudatum.

Lingua cartilaginea, bifida.

Pedes ambulatorii.

Lin. Syst. Nat. p. 159.

CHARACTER SPECIFICUS, &c.

CORACIAS ex cyaneo et cæruleo-thalassino varia, dorso testaceo, pileo virescente.

CORACIAS CÆRULEA, antice testacea, pileo viridi.

Lin. Syft. Nat. p. 159.

CORACIAS INDICA.

Lath. ind. orn. p. 170.

Licet superbiat totum genus splendidissimis coloribus, ægre tamen speciem pulchriorem reperies quam quæ in tabula depingitur. In Museo Britannico asservatur specimen unde delineata est hæc nostra sigura, magnitudine quasi Coraciæ communis sive Europææ.

INDIAN ROLLER,

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GENERIC CHARACTER.

Bill strait, bending a little towards the end; cultrated at the edges.

Nostrils narrow; naked.

Legs generally short: toes divided to their origin; three forwards and one backwards.

SPECIFIC CHARACTER, &c.

ROLLER varied with deep-blue and pale greenish-blue; the back pale-brown; the top of the head greenish.

The CEYLONESE ROLLER.

The INDIAN ROLLER.

Lath. syn. p. 412.

BLUE JAY from the East Indies.

Edw. pl. 326.

The genus Coracias is eminently diftinguished by beauty of color, and the species here represented may be considered as one of the most brilliant. The specimen from which the figure was taken is in the British Museum, and is about the size of the common or European Roller.



7.7



STYLEPHORUS CHORDATUS.

•

CHARACTER GENERICUS.

Oculi pedunculati (seu cylindro crasso brevi impositi.)

Rostrum productum, sursum spectans, versus caput membrana interjecta retractile.

Os terminale, edentulum?

Branchiæ trium parium sub jugulo sitæ.

Pinnæ pectorales parvæ; dorfalis longitudine dorfi, caudalis brevis, radiato-spinosa.

Corpus longiffimum, compressum.

Cum rarissimum hunc piscem in primo volumine Actorum Societatis Linnæanæ jam descripserim, satis erit lectores admoncre sideliter in tabula depingi naturalem animalis magnitudinem, coloremque (exceptis capite pinnisque susciple splendide argenteum.

Captus fuit Stylephorus chordatus juxta parvulas aliquot infulas non longe a Cuba distantes. Specimen, quod unicum in Europa extare creditur, undeque exaravi descriptionem quæ actis inseritur Societatis Linnæanæ, conspici possit in Museo Leveriano.

Novum genus constituit piscis, cujus alia nulla hactenus cognita est species.

CHORDATED STYLEPHORUS.

GENERIC CHARACTER.

Eyes pedunculated; standing on a short, thick cylinder.

Snout lengthened; directed upwards; retractile towards the head by means of a membrane.

Mouth without teeth?

Branchiæ three pair, beneath the throat.

Fins pectoral fmall; dorfal the length of the back; caudal fhort, with spiny rays.

Body very long; compressed.

Having already described this highly curious animal in the first Volume of the Transactions of the Linnæan Society, I shall at present only observe that it is here represented in its natural fize; that the color (except on the head and fins, which are brown) is a bright filver; and that it was taken near a cluster of small islands not far from the coast of Cuba. The only specimen yet known in Europe, and from which the description above referred to in the Linnæan Transactions was drawn up, is preserved in the Leverian Museum.

I need not add that this fish constitutes a new genus, of which no other species has yet been discovered.





CHÆTODON SQUAMULOSUS.

CHARACTER GENERICUS.

Dentes (plerisque) setacei, slexiles, confertissimi, numerosissimi.

Membrana branchiostega radiis sex.

Corpus plerumque fasciatum. Pinna dorsi anique carnosa squamosa.

CHARACTER SPECIFICUS, &c.

CHÆTODON viridi-aureus, fquamis fquamulofis.

ACARAUNA MAJOR, &c.

Catesb. 2. p. 31. t. 31.

Piscem dépinximus non modica pulchritudine, juxta Americæ et insularum adjacentium litora copiose satis generatum, squamis insigniter contectum quæ ipsæ minutius squamatæ: quod vel solum speciem satis denotet. Non raro errant auctores, qui nihil distare opinantur hunc piscem a Chætodonte triostego Linnæi; ducitque eos in errorem quod salso citatur in systematis Linnæani editione duodecima, indeque in alia multa opera irrepsit,

Accidere

Accidere folet huic quod et aliis plerifque pifcibus, ut diversis anni temporibus variet color; magis fcilicet minusve aureus, pinnis itidem magis minusve rubro-cæruleis.





DOUBLE-SCALED CHÆTODON.

GENERIC CHARACTER.

Teeth (in most species) setaceous, small, very numerous.

Body commonly fasciated transversely. Dorsal and anal fins sleshy and scaly towards the base.

SPECIFIC CHARACTER, &c.

Gold-green CHÆTODON, with the scales coated with smaller ones.

The ANGEL-FISH.

This beautiful fish is not uncommon about the coasts of America and the West Indian islands. It is remarkable for the very singular appearance of its scales; which are each coated over with much smaller ones; a particularity alone sufficient to distinguish this species from almost all others. It is often consounded with the Chætodon triostegus of Linnæus; owing to a mistaken quotation in the twelsth

twelfth edition of the Systema Naturæ of that author, and which has been carelessly repeated by several others. In color, like most sishes, it varies at different seasons; being sometimes of a far richer and more golden tinge than at others; as well as with the blue and scarlet of the sins either deeper or lighter according to circumstances.

TRICHECHUS ROSMARUS.

O+++++++++++++++++++++++++

CHARACTER GENERICUS.

Dentes Primores nulli utrinque.

Laniarii fuperiores folitarii.

Molares ex offe rugoso utrinque; inferius duo.

Labia geminata.

Pedes posteriores compedes coadunati in pinnam.

Lin. Syst. Nat. p. 49.

CHARACTER SPECIFICUS, &c.

TRICHECHUS dentibus laniariis superioribus exfertis.

Lin. Syst. Nat. p. 49.

TRICHECHUS dentibus Ianiariis superioribus exfertis remotis.

Lin. Syst. Nat. Gmel. p. 59.

ROSMARUS.

Jonst. pisc. t. 44.

EQUUS MARINUS f. Hippopotamus falso dictus.

Raj. quadr. 191.

Si externam corporis figuram spectemus, ad phocas, seu ut vulgo vocantur, vitulos marinos plurimum appropinquat Trichechus; cum quibus, si systematis naturalis habeatur ratio, recte consociatur. Color illi est atro-suscus. Corpus pilis raris conspergitur, cuteque tegitur crassa et rugosa. Caret Trichechus omni formæ venustate. Corpus medium permagnum est, sensimque attenuatur ad caudam brevissimam. Caput maxime rotundatum et breve est: labia crassissima; vibrissæque exinde utrinque crescentes pellucidæ sunt, et stramineæ crassitudinis. Maxillæ superiori insunt dentes duo longissimi, maximi, acuti, deorsum tendentes. In longitudinem multorum pedum, aliquando etiam viginti crescit Trichechus Rosmarus.

Hujusmodi bestiarum, hominum conspectum et confortium longe fugientium, perfectam morum vitæque rationis notitiam frustra desideramus; quam fane affequi non licet physicis nisi frequenti visu sedulaque mansuetiorum animalium observatione. Plurima, ut ait perelegans fcriptor, in deserto horrido, ingentique pelago perficiuntur opera, quæ perspicacissimum hominum acumen semper essugient. Nihil igitur novimus de Trichechorum vita et moribus præter quod narraverint navigatores qui illos in secessibus suis temporariis apud insulas glaciei mari Arctico fluitantes, vel in littoribus Septentrionalibus conspexerint. Gregatim degunt Trichechi, turmisque maximis in littora ad dormiendum conveniunt. Pugnacissimo sunt ingenio, et enormibus dentibus fævissima vulnera inter mutua certamina

certamina sibi invicem infligunt. Vox eorum est ingens rugitus. Præstant fortitudine, et hominum impetum dira vi repellere solent. In regionibus Arcticis ob oleum pinguedinemque copicsissimam occiduntur. Dentes quoque magno sunt in pretio, qui vel ebur superant robore: eboris tamen color longe stabilior.







ARCTIC WALRUS.

GENERIC CHARACTER.

Tusks in the upper jaw, large, and pointing downwards.

Grinders four on both fides, above and below.

Cutting teeth none.

Feet palmated.

SPECIFIC CHARACTER, &c.

WALRUS with long tusks remote from each other.

The ARCTIC WALRUS.

Penn. Quadr. 2. p. 266.

Arctic Zoology. n. 71. p. 144.

The Morfe, Sea-Horfe, or WALRUS.

The Walrus is one of those animals which in general shape and appearance make a near approach to the Seal or sea-calf, and in a natural arrangement of quadrupeds must of necessity be disposed in the same tribe. The color of this animal is a darkish brown:

brown: the body is thinly fcattered with hair, and the skin is thick and wrinkled. The shape of the Walrus is extremely uncouth; it is very thick in the middle, and gradually lessens towards the tail, which is very short: the head is remarkably short and round; the lips very thick, and the vibrisse or whiskers consist of transparent brisses as thick as straws. In the upper jaw are two very long, large, acuminated tusks, pointing downwards. The Walrus grows to the length of several seet, and has sometimes been found not far short of twenty seet in length.

Of animals whose habitations and retreats are fo far removed from the general haunts of mankind, we must not expect to obtain that exact knowledge with respect to their ways of life which creatures of a more accessible nature permit us to discover. Innumerable stratagems, fays an elegant writer, are acted in the gloomy wilderness and in the great deep, which must for ever elude human investigation. All that is known of the general habits of the Walrus is derived from the accounts of navigators and others who have observed them during their temporary abodes either on the floating islands of ice in the northern ocean, or on the frozen coafts of the arctic regions. They are gregarious animals: and fometimes affemble in multitudes on the coafts to fleep. They are of a very pugnacious disposition, and with their enormous teeth inflict the most grievous wounds on each other during their contests. Their voice is a loud roar. They are posfeffed

fessed of great courage, and resist with dreadful violence the attacks of mankind. They are killed in the northern regions for the sake of their oil, which is extremely plentiful: their teeth are also considered as a valuable article of commerce, being in strength at least equal, if not superior to ivory; their color however is not so lasting.



CUCULUS SINENSIS.

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CHARACTER GENERICUS.

Rostrum teretiusculum.

Nares margine prominulæ.

Lingua sagittata, plana, integra.

Pedes scansorii.

Lin. Syst. Nat. p. 168.

CHARACTER SPECIFICUS, &c.

CUCULUS macrourus cæruleus, fubtus niveus, caudæ tectricibus rectricibusque macula nivea notatis.

CUCULUS cauda cuneiformi macroura, corpore cæruleo fubtus albo, rectricum apicibus macula alba.

Lin. Syst. Nat. p. 171.

CUCULUS finensis cæruleus.

Briff. av. 4. p. 157. t. 14.

Ab erudito Brissono mutuatus sum hanc descriptionem, qua nulla possit esse plenior et accuratior.

[&]quot; Speciem istam nondum mihi videre contigit.

Ipsius descriptionem desumpsi ab icone in Sina ad

G vivum

vivum depicta a D. Poivre; et sic cam æri insculptam esse curavi.

Merulam crassitie circiter æquat. Ipsius longitudo ab apice rostri ad caudam extremam tredecim circiter pollices explet, et ad extremos ungues feptem pollices et novem lineas. Rostrum ab ipsius apice ad oris angulos ufque undccim lineas longum est; cauda scptem pollices et sex lineas; pes decem cum femi lineas; digitorum anticorum extimus cum ungue undecim lineas, intimus novem lineas; pofticorum exterior decem lineas, interior quinque cum femi lineas. Alæ complicatæ ultra caudæ exortum non multum protenduntur. Summum caput albore nitct, minutifque variegatur maculis cæruleis. Totum reliquum caput ct guttur nigricant: color autem nigricans fuper inferiorem colli partem in acumen protenditur. In utroque capitis latere macula exstat rotunda candida, pone oculum posita. colli fuperior, dorfum, pennæ fcapulares et fuperiores alarum tectrices splendidissimi cærulei sunt coloris, exceptis tamen fuperioribus alarum tectricibus majoribus a corpore remotioribus albis. pygium dilutissimo tingitur cæruleo. caudæ tectrices eodem imbuuntur cæruleo ac dorfum ipsum tingitur, et ex istis quælibet majuscula macula ovata nivea versus apicem infignitur. Collum inferius et ad latera, pectus, venter, latera, crura, inferioresque caudæ tectrices niveo candore nitent. Alarum remiges majores funt ab ipfarum exortu mediam versus longitudinem usque dilutissime cæruleæ, a medietate ad apicem eodem ac dorfum cæruleo imbutæ: minores quoque dorso concolores. Caudam dam componunt decem rectrices splendidissime cæruleæ, majuscula macula ovata nivea versus ipsarum apicem notatæ. Binæ intermediæ utrinque proxime sequentem trium pollicum et totidem linearum longitudine excedunt: laterales vero gradatim longitudine minuuntur ad utrinque extimam usque unum pollicem et novem tantum lineas longam. Oculorum irides rubræ. Mandibulæ superioris basis quibuscam obsita est plumulis rigidis, pilisormibus, antrorsum versis. Rostrum, pedes, unguesque rubent. Habitat in Sina."

THE

CHINESE CUCKOW.

GENERIC CHARACTER.

Bill fomewhat bending.

Nostrils bounded by a fmall rim.

Tongue short, pointed.

Feet scansorial.

SPECIFIC CHARACTER, &c.

Long-tailed blue CUCKOW, white beneath; the tail-feathers and their coverts each marked with a white fpot.

Le COCOU bleu de la Chine.

Briff. 4. p. 157.

SAN-HIA de la Chine.

Buf. ois. 6. p. 389.

The Chinese Cuckow is thus described with elaborate exactness by the celebrated ornithologist Brisson.

"Not having feen the bird myself, I have given its description from a drawing taken from the life in China by Mons. Poivre. It is about the size of a black-





a blackbird: its length, from the tip of the bill to the end of the tail, is about thirteen inches; and to the end of the claws about feven inches and nine lines. bill, from the tip to the corners of the mouth, eleven lines: the tail feven inches and fix lines: the foot ten lines and a half: the exterior fore-toe, with the claw. eleven lines; the interior nine lines; the exterior hind-toe ten lines: the interior five lines and a half-The wings, when closed, do not reach much beyond the beginning of the tail. The top of the head is of a clear white, variegated with minute specks of blue: all the rest of the head, with the throat, is blackish: the blackness being produced on the lower part of the neck into a sharpened form. On each fide the head is a round white fpot, placed behind The upper part of the neck, the back, the eye. the fcapular feathers, and the upper wing-coverts are of a most brilliant blue, except the larger upper wing-coverts farthest from the body, which are white: the rump is of a very pale blue: the upper tail-coverts are of the fame blue color with the back, and are each marked with a rather large, fnow-white fpot towards the end: the lower part and fides of the neck, the breast, belly, sides of the body, thighs, and lower tail-coverts are of a beautiful fnow-white. The larger wing-feathers are of a very pale blue from their origins to their middles; and from their middles to their tips of the same blue with the back: the fmaller wing-feathers are also of the same color with the back. The tail is composed of ten feathers of a very bright blue, each marked towards the tip with a largish snow-white spot: the two middle feather

feathers exceed in length the two next them on each fide by three inches and as many lines; but the fide-feathers shorten gradually to the exterior one on each fide, which is only one inch and nine lines in length. The irides of the eyes are red: the base of the upper mandible is beset with some small, stiff, hair-like feathers, turned forwards. The beak, feet, and claws are red. It is a native of China."

VORTICELLA POLYPINA.

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CHARACTER GENERICUS.

Corpus contractile nudum, ciliis rotatoriis.

Lin. Syst. Nat. Gmel. p. 3874.

CHARACTER SPECIFICUS, &c.

VORTICELLA composita ovato-truncata, pedunculo reflexili ramosissimo.

Müll. an. inf. p. 328. t. 46. f. 7-9.

VORTICELLA composita, floribus concatenatis, stirpe paniculata subdigitata.

Lin: Syft. Nat. p. 1317.

BRACHIONUS vegetans, stirpe retortili umbellata, radiis racemosis, corpusculis campanulatis.

Pall. Zooph. 56.

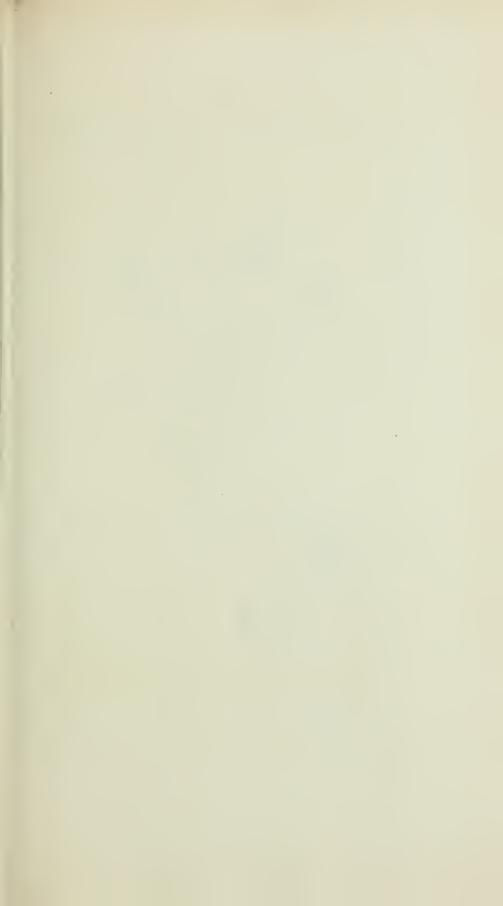
VORTICELLA polypina.

Müll. hift. verm. 1. p. 123. n. 137.

Mirari jure possint in operibus naturæ minutioribus parum versati, non inter vegetabilia referri quod in tabula proponitur, sed inter animalia. In fere innumeris aquarum incolis quos ope microscopii detexerunt hodierni physici, pulchriores pauci funt, aut digniores qui penitius examinentur, quam quos quos continet *Vorticellarum* genus: quod modo vivendi, et prolem propagandi, polypis feu hydris admodum est affine: adeo ut a multis microscopicis scriptoribus nomine vocatum sit *polypi racemati*. Sunt enim variæ species quæ fere unitæ et connexæ videntur, plurimis confertis et parvo spatio coarctatis; sunt etiam quæ crescunt et panduntur veluti in racemi similitudinem.

Reperiuntur, ut plurimum, Vorticellæ menfibus æstivis, in aquis purioribus stagnantibus, adhærentes caulibus foliifque plantarum minorum; præcipue autem lemnæ vulgaris. Quam vero jam describimus marina est species, quæ fimili modo crescit super fucis minoribus. Tota congeries nudo oculo conspecta videtur quasi macula quædam albicans, viscido-mucosa: nec patet ejus forma mira et peculiaris, donec in aquæ guttula immerfa vitroque impofita examen microscopii subierit. Ab unico caule prodeunt incertis intervallis ramuli minores, fingulo quafi in florem pulcherrimum definente convolvulo non absimilem, lateraque habentem adversa filamentis duobus instructa, more staminum. Habet omnis coacervatio pelluciditatem vitri purissimi; floresque animati nunc se contrahentes, nunc dilatantes, motu quaquaversum variato, adeo delectant oculos, ut vix aliud magis quod ope microscopii spectatur. Singulum animalculum, licet stipes omnibus in commune sit, integrum tamen est et sui juris; cumque plene adoleverit, possit se a patrio solo dissociare, et novam coloniam alio deducere.

Prædantur Vorticellæ animalcula fe minora, quæ prope natantia arripiunt ingurgitantque, fimul atque in vorticem contorferint aquas gyratis tentaculis.





Ret

THE

ARBORESCENT VORTICELLA.

GENERIC CHARACTER.

Body contractile, naked; furnished with rotatory organs.

SPECIFIC CHARACTER, &c.

Compound bell-shaped VORTICELLA, with retortile branched stem.

Paniculated fea VORTICELLA.

Tree or Arborescent VORTICELLA.

To those who are not particularly conversant in the history of the minuter productions of Nature it must doubtless be matter of surprise to be informed that the sigures on the annexed plate are not the representations of a vegetable but of an animal.

Amongst the innumerable inhabitants of the waters, which the microscope has enabled modern naturalists to discover, sew are more strikingly curious than those which constitute the genus Vorticella. These animals, in their general mode of life, their manner of production, and other circumstances, bear a great affinity to the Hydræ or Polypes; and indeed by many microscopical writers have been called by

the title of Cluster-Polypes; many of the species being found in groupes; sometimes formed by the mere approximation of several individuals; and at other times by the ramified or aggregate manner in which they grow.

The Vorticellæ are generally found in clear stagnant waters, during the fummer months; attached to the stalks of the smaller water-plants; and particularly to those of the common Lemna or duckweed. The fpecies however here represented is a marine one, and is attached in a fimilar manner to the stalks of the smaller Fuci. To the naked eye the whole groupe bears the appearance of a very fmall whitish spot or slime, refembling mouldiness; but when placed in a drop of water on a glass, and examined by the microscope, its extraordinary structure is immediately displayed. From a fingle stem proceed, at various heights, smaller ramifications, each terminated by a feeming flower, like that of Convolvulus, and furnished on the opposite edges with a pair of filaments refembling stamina. The whole is in the highest degree transparent, and perfectly refembles the finest glass; while the varying motions of the feeming flowers, expanding and contracting occasionally, and turning themselves in different directions, afford a fcene fo fingularly curious that it may be numbered amongst the most pleafing spectacles which the microscope is capable of exhibiting. Each animal, though feated on the common stem, is to be considered as complete in itself, and possesses the power, when fully grown, of detaching itself from the parent stem, affixing irfelf itself in some other spot, and forming a new colony. The Vorticellæ seed on animalcules still smaller than themselves; and their various motions are commonly exerted in order to obtain their prey, the rotatory motion of their tentacula causing an eddy in the neighbourhood of each individual sufficient to attract into its vortex the animalcules which happen to swim near, and which the Vorticellæ seize, by suddenly contracting, and inclosing them.

LACERTA PALUSTRIS.

CHARACTER GENERICUS.

Corpus tetrapodum, caudatum, nudum.

Lin. Syst. Nat. p. 359.

CHARACTER SPECIFICUS, &c.

LACERTA nigricans, lateribus albido-punctatis, abdomine croceo, maculis inæqualibus nigris.

SALAMANDRA alepidota verrucofa.

Gronov. Muf. 2. p. 77. n. 51.

SALAMANDRA aquatica.

Houttuyn. Act. Ulyss. 9. p. 328.

Triton PALUSTRIS.

Laur. amph. p. 39. n. 43. t. 4. f. 2.

Superat interdum magnitudine Lacerta palustris specimina quæ in tabula ostenduntur; rarior et amplior lacerta aquatica, quam alunt sere omnes aquæ stagnantes. Color corporis superioris susco-nigricat saturatior; infra aurantius, maculis magnis, inæqualibus, nigris, variatus. Latera verruculis plurimis seu atomis convexis, albis, asperguntur; caudaque utrinque sasciam plerumque habet latam, subargenteam,

team, cum mistura quadam subcærulei. Assurgit magis minusve per dorsum maris quasi crista continuata et compressa inæqualiter serrata.

Amat ut plurimum, hæc species aquas puriores et frigidiores quam quas incolit lacerta aquatica; et ineunte vere, conspici possit vespertino tempore in locis udis juxta margines aquarum, nec non sub sepibus, aliisque latibulis, quæ umbram præbent et humorem.





WARTED NEWT.

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GENERIC CHARACTER.

Body four-footed, tailed; naked; or unfurnished with any distinct integument.

SPECIFIC CHARACTER, &c.

Blackish NEWT with the sides speckled with white; the abdomen orange with irregular black spots.

The Warty LIZARD.

Pennt. Brit. Zool. 3. p. 22. t. 3. fig. 1.

The black-and-orange WATER-NEWT.

The greater WATER-NEWT.

The Lacerta palustris is a species somewhat less common than the lacerta aquatica, which occurs in almost every stagnant water: it is also of a superior size; being sometimes sound considerably larger than the specimens here represented. Its color is an extremely deep blackish brown above, and a bright orange beneath, variegated with large irregular black spots. The sides of the body are sprinkled

over with numerous white convex specks or tubercles, and on each side of the tail there is commonly a broad streak of a silvery hue, with a cast of blueish. The back of the male is more or less distinguished by a kind of statened process, divided into irregular ferratures. This species is commonly met with in waters of a clearer and colder nature than those in which the lacerta aquatica is found; and in the beginning of spring may occasionally be observed, towards the evening, in damp situations near the margins of ponds, as well as under hedges, and other shady situations.

CERAMBYX GIGANTEUS.

Q\$\$\$**\$\$\$**\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

CHARACTER GENERICUS.

Antennæ setaceæ.

Palpi quatuor.

Thorax spinosus aut gibbus.

Elytra linearia.

Lin. Syst. Nat. Gmel. p. 1814.

CHARACTER SPECIFICUS, &c.

CERAMBYX thorace utrinque tridentato, corpore nigro, elytris ferrugineis, antennis brevibus.

Lin. Syst. Nat. Gmel. p. 1816.

PRIONUS giganteus.

Fab. spec. inf. 1. p. 206.

Depingitur Cerambyx giganteus magnitudine naturali. Americam australem inhabitat, physicisque Europæis paucis abhinc annis innotuit. A Domino Drury in elegantissimo opere de insectis exoticis eximie exprimitur, nec non a Domino Daubenton in opere cui titulus *Planches Enluminées*. Color est obscure castaneus, seu terreo-fuscus, thorace paulum nigriore. Elytra, seu alarum thecæ exteriores, quodanmodo scabra sunt: antennæ brevissimæ.

GREAT CERAMBYX.

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GENERIC CHARACTER.

Antennæ fetaceous.
Thorax either fpinose or gibbose.
Palpi sour.
Wing-Cases long or linear.

SPECIFIC CHARACTER, &c.

Black CERAMBYX, with ferruginous wingcases, short antennæ, and thorax tridentated on each side.

Le THUSTE de Cayenne.

Pl. Enl. 64. f. 2.

The great short-horned CERAMBYX.

The Cerambyx giganteus, represented in its natural fize on the annexed plate, is a native of South America, and was introduced to the notice of European naturalists some sew years backwards. It has been extremely well figured by Mr. Drury, in his elegant work on exotic insects; as also by Mons. Daubenton in his Planches Enluminées. Its color is a uniform dull chesnut, or earthy brown: the thorax is somewhat darker or blacker than the other parts: the elytra or wing-cases are of a roughish surface, and the antennæ are remarkably short.



1.10



CERTHIA CYANEA.

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CHARACTER GENERICUS.

Rostrum arcuatum, tenue, subtrigonum, acutum. Lingua acuta.

Pedes ambulatorii.

Lin. Syft. Nat. p. 184.

CHARACTER SPECIFICUS, &c.

CERTHIA CYANEA, vertice beryllino, alis caudaque nigris, tectricibus inferioribus flavis.

CERTHIA cærulea, fascia oculari humeris alis caudaque nigris, pedibus rubris.

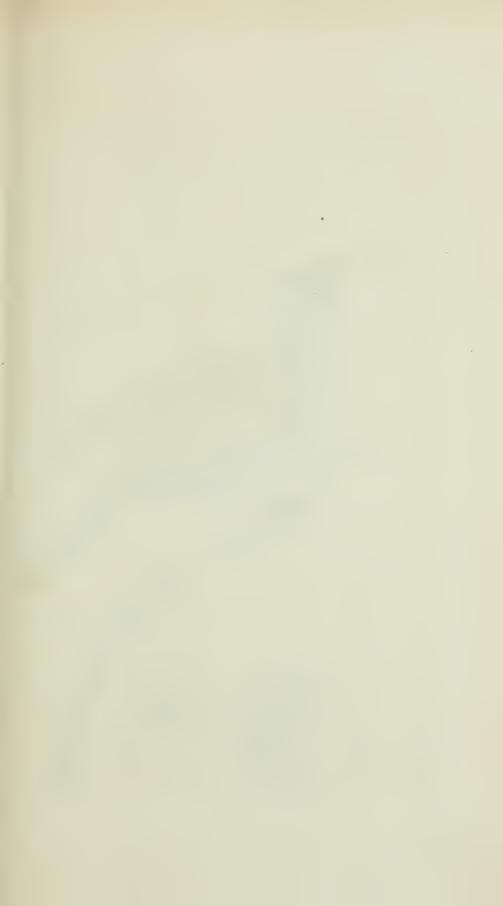
Lin. Syft. Nat. p. 188.

CERTHIA cærulea, fascia oculari, humeris, alis caudaque nigris, pedibus suscis.

Lin. Syst. Nat. Gmel. p. 483.

Certhiæ familiari æqualis prope est magnitudine avis quam repræsentat tabula. Generatur in America Australi, in Cayana autem præcipue.







THE

CYANEAN CREEPER.

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GENERIC CHARACTER.

Bill flender, incurvated, sharp-pointed.

Tongue differing in shape in the different species.

Legs moderately stout.

Toes three before; one behind: back-toe large; claws hooked and long.

SPECIFIC CHARACTER, &c.

Blue CREEPER, with the wings and tail black; the crown beryl-coloured; the under wing-coverts yellow.

GUIT-GUIT noir et bleu.

Buff. ois. 5. p. 529.

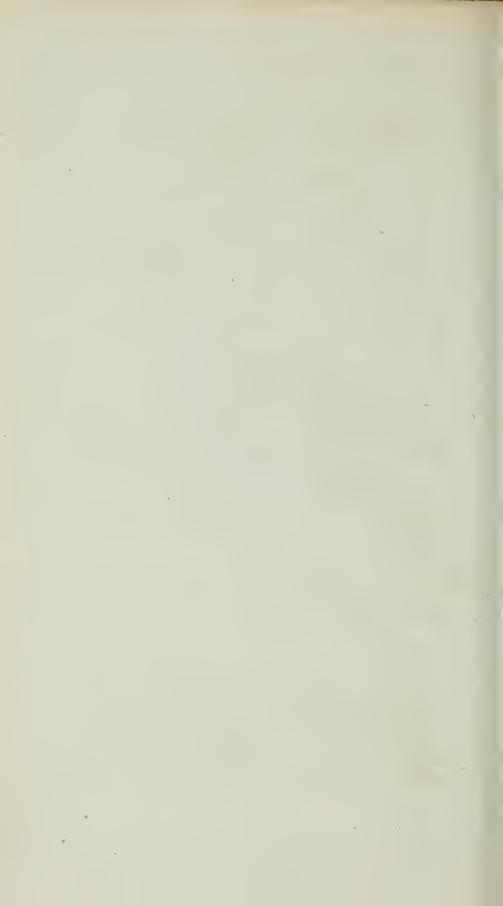
GRIMPEREAU du Brefil.

Pl. Enl. 83. f. 2.

Black-and-blue CREEPER.

Edw. pl. 264. f. 1.

The bird represented on the plate is an inhabitant of South America, and is principally found in the province of Cayenne. Its fize is nearly that of the common English Creeper.



CANCER BRACHIATUS.

CHARACTER GENERICUS.

Pedes octo (rarius fex aut decem); infuper manus duæ chelatæ.

Palpi sex inæquales.

Oculi duo distantes, plurimis pedunculati; elongati, mobiles.

Mandibula cornea, craffa.

Labium triplex.

Cauda articulata, inermis.

Lin. Syst. Nat. Gmel. p. 2963.

CHARACTER SPECIFICUS, &c.

CANCER elongatus, thorace striato, brachiis longissimis.

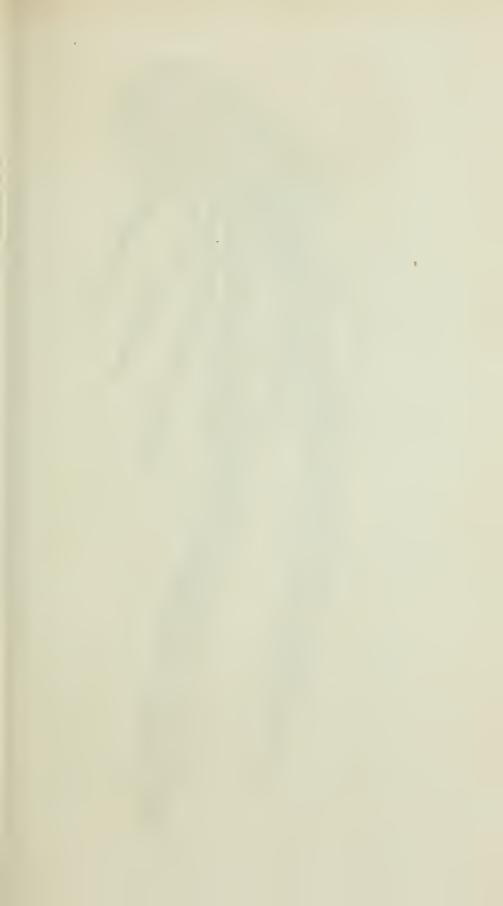
CANCER thorace rugoso, antice ciliato spinoso, rostro tridente, manibus silisormibus.

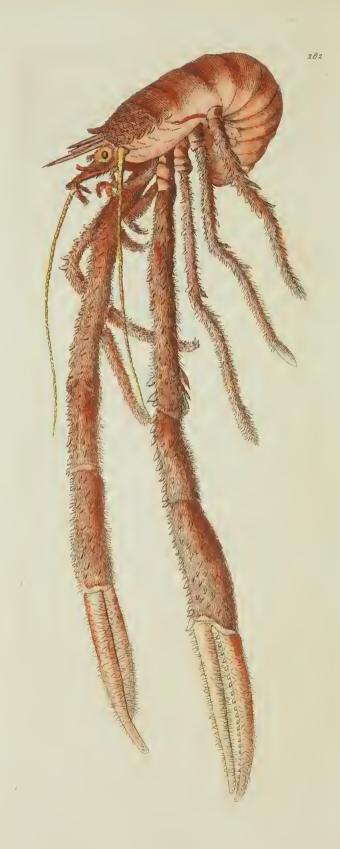
Fab. sp. inf. 1. p. 508.

CANCER rugosus.

Lin. Syst. Nat. Gmel. p. 2985.

In variis Europæ Arcticæ oris conspici possit hæc cancri species, ob enormem crurum anticorum longitudinem gitudinem notabilis, nec non ob summam thoracis superioris elegantiam; qui laminis decoratur plurimis transversis, quasi imbricatim dispositis, et subtiliter serratis, ipsis quoque marginibus belle ciliatis.





BAMFFIAN LOBSTER.

GENERIC CHARACTER.

Legs generally eight (in some species six or ten). Feelers six, unequal.

Eyes two, generally distant, footstalked, moveable. Tail articulated, unarmed.

SPECIFIC CHARACTER, &c.

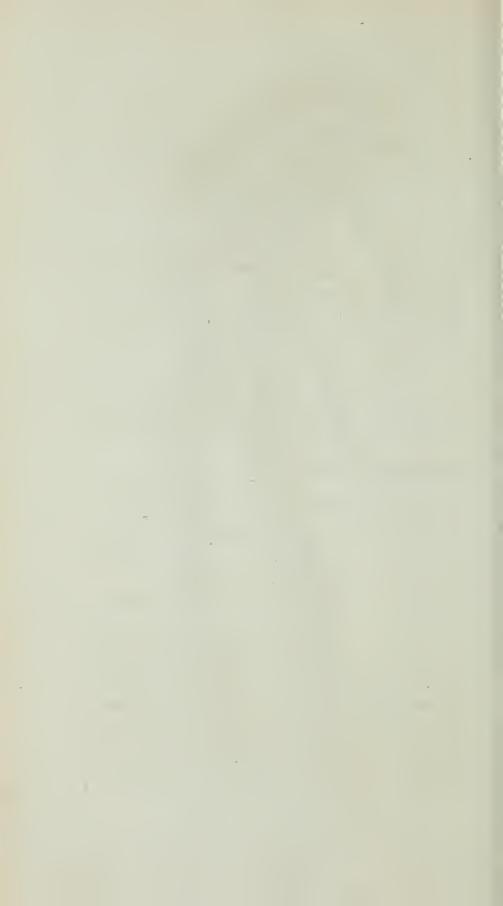
Long-bodied CRAB, with striated thorax and very long arms.

The BAMFFIAN CRAB.

Long-clawed LOBSTER.

Penn^t. Brit. Zool. 4. p. 14. pl. 13. n. 25.

This curious species is distinguished by the enormous length of its arms, as well as by the singular elegance of the upper part of the thorax, which is ornamented with a great many transverse, finely-ferrated laminæ, disposed over each other in an imbricated manner, and beautifully ciliated on the margins. It is found on several of the Northern coasts of Europe.



SERPULA VERMICULARIS.

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CHARACTER GENERICUS.

Animal Terebella.

Testa univalvis, tubulosa, adhærens, (sæpe isthmis integris passim intercepta.)

Lin. Syst. Nat. p. 1264.

CHARACTER SPECIFICUS, &c.

SERPULA testa tereti, subulata, curvata, rugosa. Lin. Syst. Nat. p. 1267.

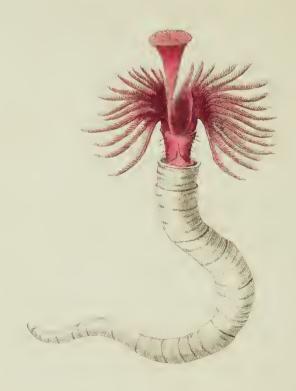
TUBUS VERMICULARIS.

Ellis Corall. t. 38. f. 2.

Specierum quas plurimas continet genus Serpula varium omnino et inæquale, diversa admodum est forma et magnitudo. Species quam magnitudine naturali depinximus, in litoribus Britannicis aliisque Europæis sæpe conspicitur, quasi in longitudinem agglutinata conchis majoribus, rupibus, lapidibus, reliquisque ejusmodi. Pulcherrima sunt tentacula quasi plumata, eodem colore quo corpus, scilicet vivide rubra; quæque, cum animal escam quæritat, insecta nempe parvula marina aliaque id generis, exferuntur;

feruntur; et assurgit inter tentacula tuba, margine ampliore, tubæ bellicæ non longe absimilis, quam juxta est et alia simplicior. Corpus reliquum intra testam contrahitur, et ad similitudinem hirudinis quodammodo accedit.







THE

VERMICULAR SERPULA.

GENERIC CHARACTER.

Animal refembling a Terebella.

Shell univalve, tubular, adhering commonly to other fubstances, (in some species intercepted internally by dissepiments at uncertain distances.)

SPECIFIC CHARACTER, &c.

SERPULA with round, tapering, curved, wrinkled shell.

VERMICULAR SERPULA.

Common SERPULA or Worm-shell.

The genus Serpula, confisting of a great number of species of very different sizes and forms, is among the least regular of the testaceous tribe; and the inhabiting animals appear of a very different cast from those of any other shells. The species here sigured in its natural size, is not uncommon on the British and other European coasts. It is found attached, or agglutinated as it were, longitudinally, to the larger shells,

shells, rocks, stones, or other substances. The animal is remarkable for the elegance of its plumy tentacula, which, as well as the body, are of a bright scarlet color, and are protruded when the creature is in quest of prey; viz. the smaller sea insects, &c. Between the tentacula arises a curious tube with a dilated opening not ill resembling the form of a trumpet; and near this appears another tube of a more simple structure. The remainder or body of the animal is imbedded in the shell, and bears a distant resemblance to a leech.

CERAMBYX CERVICORNIS.

CHARACTER GENERICUS.

Antennæ setaceæ.

Palpi quatuor.

Thorax spinosus aut gibbus.

Elytra linearia.

Lin. Syft. Nat. Gmel. p. 1814.

CHARACTER SPECIFICUS, &c.

CERAMBYX thorace utrinque tridentato, mandibulis porrectis corniformibus fpinofis, elytris fusco et flavescente variis.

CERAMBYX thorace marginato dentato, maxillis porrectis corniformibus utrinque spinosis, antennis brevibus.

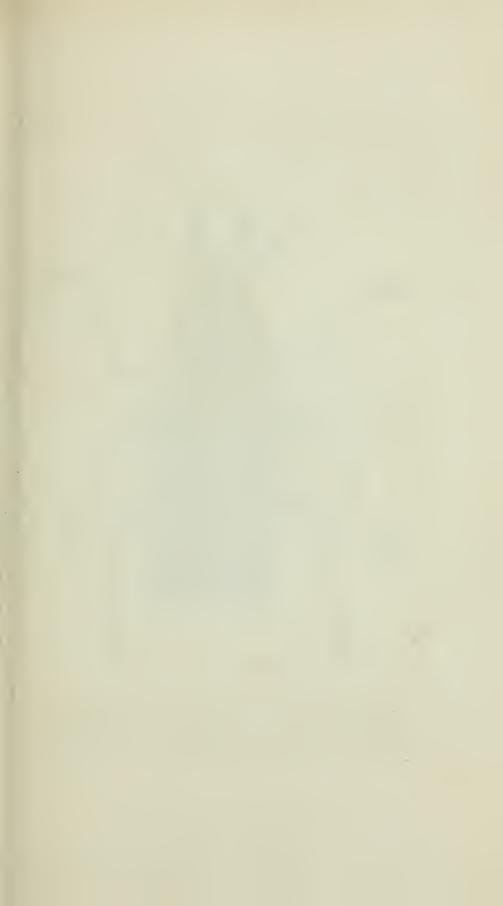
Lin. Syst. Nat. p. 622.

CERAMBYX thorace utrinque tridentato, mandibulis porrectis, extus unifpinofis, antennis brevibus.

Lin. Syst. Nat. Gmel. p. 1814.

Magnitudine naturali depingitur Cerambyx cervicornis, inter maximos fui generis numerandus. In America meridionali præcipue conspicitur.







R.1"

STAG-HORNED CERAMBYX.

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GENERIC CHARACTER.

Antennæ setaceous.

Thorax either spinose or gibbose.

Palpi four.

Wing-Cases long or linear.

SPECIFIC CHARACTER, &c.

Great CERAMBYX, with the thorax tridentated on each fide; the jaws refembling horns; the wing-sheaths variegated with brown and yellowish.

The Stag-horned variegated CERAMBYX.

Le BUFLARD de Cayenne.

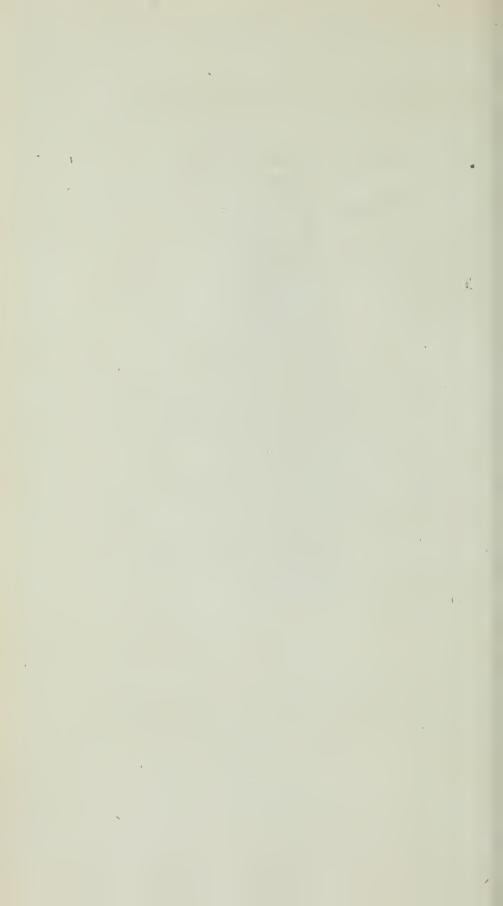
Daubent. Pl. Enl. 90. fig. 3.

Mer. Sur. pl. 48.

Roes. 2. p. 12. t. 1. f. B.

Sloan. Jam. 2. t. 237. f. 6.

The Stag-horned Cerambyx, which is one of the largest insects of the genus, is a native of South America, and is represented on the plate in its natural size.



ORIOLUS GALBULA.

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CHARACTER GENERICUS.

Rostrum conicum, convexum, acutissimum, rectum: mandibula superiore paulo longiore, obsolete emarginata.

Lingua bifida, acuta.

Pedes ambulatorii.

Lin. Syst. Nat. p. 160.

CHARACTER SPECIFICUS, &c.

ORIOLUS luteus, loris alis caudaque nigris, rectricibus exterioribus postice flavis.

ORIOLUS luteus, loris artubusque nigris, rectricibus exterioribus postice flavis.

Lin. Syst. Nat. p. 160.

TURDUS luteus.

Frisch. t. 31.

TURDUS aureus.

Klein. av. p. 66.

GALBULA.

Raii Syn. p. 68.

Oriolus Galbula, aves plerasque Europæas pulchritudine superans, quemque satis abundanter alit reliqua Europa, in insulas Britannicas fortuitus hospes rarissime desertur. Magnitudo est quasi turdi communis. Color seminæ olivaceus.







GOLDEN ORIOLE.

◇*********************

GENERIC .CHARACTER.

Bill conic, convex, very sharp-pointed, strait: the upper mandible rather longer than the lower, and slightly emarginated.

Tongue bifid, sharp-pointed. Feet formed for walking.

SPECIFIC CHARACTER, &c.

Gold-yellow ORIOLE with black lores wings and tail: the exterior tail-feathers yellow on their lower part.

The Golden THRUSH.

Edw. t. 185.

Golden ORIOLE.

Lath. Syn. 1. p. 449.

WITWALL.

Will. orn. p. 198.

Le LORIOT.

Buf. 3. p. 254. t. 17.

The Oriolus Galbula, furpassing most of the European birds in beauty of plumage, is not uncommon K 2 in

in Germany, France, and many other parts of the continent, but is feen only as an occasional straggler, (and even that but very rarely,) in the British dominions. Its size is that of a common thrush. The female is olive-coloured.

SCARUS VIRIDIS.

CHARACTER GENERICUS.

Caput: Dentium loco maxillæ ipsæ eminentes; margine dentato-crenatæ osseæ.

Membrana branchioflega radiis quinque; Operculum integerrimum.

Corpus: Linea lateralis plurimis ramofa.

Lin. Syst. Nat. Gmel. p. 1280.

CHARACTER SPECIFICUS, &c.

SCARUS viridis, linea laterali interrupta.

SCARUS linea laterali interrupta.

Bloch aufl. Fifch. 7. t. 222.

Ad generis Scari distinctionem insignis est forma dentium, qui constant e duabus quasi maxillis seu laminis osseis in utraque mandibula sitis, quales sunt in genere Tetrodontis; margine vero serie denticulorum separatorum crenata. Hæ quoque ipsæ laminæ osseæ, si accuratius inspiciantur, constare videntur in nonnullis speciebus e congerie quasi dentium minorum, super se invicem serie continuata surgentium, adeo ut belle cælatas putes. Squamæ pluribus scaris magnæ sunt, et colores vividi. Scarus quem ossendit tabula, æquat magnitudine Cyprinum Carpionem, et alitur in aquis Japonicis.





2.

GREEN SCARUS.

GENERIC CHARACTER.

Strong bony processes, crenated at the edges, instead of teeth.

SPECIFIC CHARACTER.

Green SCARUS, with interrupted lateral line.

The genus Scarus is eminently diftinguished by the form of its teeth, which consist of a pair of strong, bony processes in each jaw, as in the genus Tetrodon; but marked or crenated round the edges by a number of separate denticulations: the whole body also of the bony processes themselves, if narrowly examined, will be found to consist, in some species, of a kind of aggregate mass of smaller teeth, placed as it were in succession over each other, and giving a beautiful kind of carved appearance to the whole. The scales in most of the Scari arc large, and the colors beautiful. The present species is about the size of a Carp, and is a native of Japan.

TESTUDO IMBRICATA?

CHARACTER GENERICUS.

Corpus tetrapodum, caudatum, testa obtectum. Os mandibulis nudis, edentulis.

Lin. Syst. Nat. p. 350.

CHARACTER SPECIFICUS, &c.

TESTUDO palmarum plantarumque unguibus binis, fcutis laxe atque imbricatim incumbentibus?

Lin. Syst. Nat. Gmel. p. 1036.

TESTUDO Caretta.

Raj. quadr. p. 258?

TESTUDO Marina Americana?

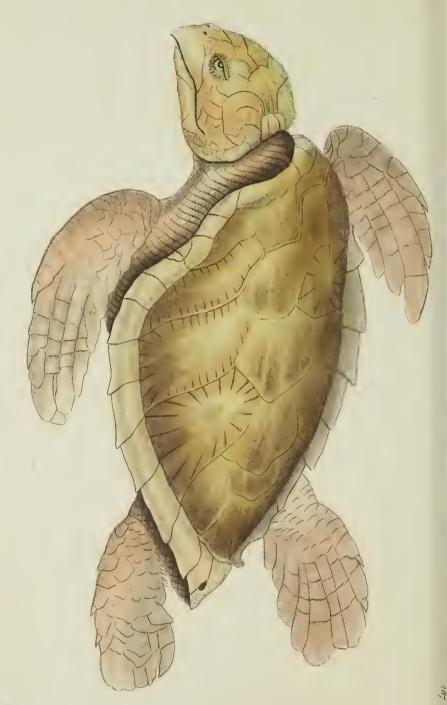
Seb. Muf. 1. p. 130. t. 80. fig. 9.

Dividitur genus in testudines terrestres, sluviatiles, et marinas. Marinis quæ vulgo dicuntur Turtles, pedes sunt quasi pinnisormes, lati, et squamati. Harum præcipua est species Mydas dicta, hodie habita in exquisitissimis dapibus. Dividi solet tegmen testudinis jam depictæ, nec non testudinis Mydæ et Carettæ Linnæi, in tenues lamellas artisciose

ficiose paratas et expolitas; unde multa et satis quæstuosa sit mercatura. Crustis testudinis lectos, domuum postes, et reliqua ejusmodi decorare mos erat veteribus.

Fœcundæ admodum funt testudines pleræque marinæ, ovaque numerosa in arena deponunt, ovis gallinaceis non absimilia, sed cute quasi membranacea obtecta, et rotundata; unde post paucos dies exclusi pulli mari se illico credunt. Amplissima interdum est moles testudinis imbricatæ & Mydæ. Fuisse dicuntur nonnullæ pondo sexcenis, longitudine plus quinquipedali. Communiter autem captantur bipedales, seu tripedales. Alitur præcipue testudo imbricata in maribus Americanis, frequentior apud insulas Jamaicæ, Cubæ, Hispaniolæ, &c. Victitat, ut solent aliæ testudines marinæ, testaceis, sepiis, sucis, reliquisque ejusmodi.





IMBRICATED TORTOISE.

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GENERIC CHARACTER.

Body four-footed, tailed; covered with a shell.

Mouth with uncovered, toothless, bony mandibles.

SPECIFIC CHARACTER, &c.

SEA-TORTOISE with two claws on each foot; the shell confisting of laxly-imbricated, acuminated scales.

Hawk's-Bill TURTLE?

Brown. Jam. p. 465.

Scaly TORTOISE?

Grew. Mus. p. 38. t. 3.

The animals of this genus are divided into land, river, and fea tortoifes; which latter are commonly distinguished by the name of Turtles; and are furnished with broad, slat feet, resembling a kind of thick, scaly sins. Of these the most important species is the Testudo Mydas, which has long been celebrated for the peculiar delicacy of its siesh, and which forms a principal article in the repasts of modern

modern epicures. It is from the species here reprefented, as well as from the Caretta and Mydas of Linnæus, that a great part of what is commonly called tortoife-shell is procured; and which, when properly prepared and polished, affords so many beautiful and valuable articles of commerce. The ancients were well acquainted with the ornamental use of tortoise-shell, and applied it to the decoration of their houses, &c.

Most of the animals of this tribe are extremely prolific, and deposit their eggs, which are about the fize of hen's eggs, but round, and covered with a membranaceous skin, under the sand; which, after a certain number of days, are hatched; and the young immediately betake themselves to the sea. The Testudo imbricata and Mydas grow sometimes to a vast size; and have been seen of the length of sive or six feet, and of the weight of many hundred pounds: the general length however is about two or three seet. This species is a native of the American seas, and is common about the coasts of Jamaica, Cuba, Hispaniola, &c. Like the rest of its tribe, it feeds on shell-sish, cuttles, such as the sound seasons and seasons seasons.

PHALÆNA CAJA.

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CHARACTER GENERICUS.

Antennæ setaceæ, a basi ad apicem sensim attenuatæ.

Alæ (fedentis) fæpius deflexæ. (Volatu nocturno.) Lin. Syft. Nat. p. 808.

CHARACTER SPECIFICUS, &c.

PHALÆNA Bombyx alis albis fusco maculatis; inferioribus rubris nigro maculatis.

PHALÆNA Bombyx elinguis, alis deflexis fuscis, rivulis albis; inferioribus purpureis nigro punctatis.

Lin. Syst. Nat. p. 819.

Goed. inf. t. 17. Roes. inf. 1. phal. 2. t. 1. Mouff. inf. 93. f. 15. Aldr. inf. 246. f. 11. 12.

Polyphaga vocatur larva pulcherrimi hujus infecti; depascitur nempe varia gramina, plantaginem, et alia vegetabilia. In chrysalidem plerumque convertitur mense Junio, tela quadam tenui cooperta. Erumpere solet phalæna mensibus Julio et Augusto.







TIGER MOTH.

GENERIC CHARACTER.

Antennæ or Horns fetaceous, decreafing in fize from the base to the point.

Wings, when at rest, genenerally deslected.

Flight mostly nocturnal.

SPECIFIC CHARACTER, &c.

PHALÆNA with the upper wings creamcoloured, fpotted with brown; the lower wings red, fpotted with black.

The Great Tiger Moth.

Merian. inf. Eur. t. 5.

Albin. inf. t. 20.

Degeer. inf. 1. t. 12. f. 8. 9.

Seba. 4. p. 63. t. 52. fig. v. 1—4.

Sepp. inf. 4. t. 9. f. 2.

The Larva or Caterpillar of this beautiful Moth is of a polyphagous nature; feeding indifcriminately on grafs, plantain, and a variety of other vegetables. It commonly changes to a chryfalis in June, enveloping itself in a web of a slight texture. The Moth appears in July and August.

CERTHIA MURARIA.

◆**********

CHARACTER GENERICUS.

Rostrum arcuatum, tenue, subtrigonum, acutum. Lingua acuta.

Pedes ambulatorii.

Lin. Syft. Nat. p. 184.

CHARACTER SPECIFICUS, &c.

CERTHIA cinerea, alis caudaque nigris; tectricibus rofeis, remigibus rofeo marginatis.

CERTHIA cinerea, macula alarum fulva.

Lin. Syst. Nat. p. 184.

PICUS muralis.

Gefn. av. p. 712.

PICUS murarius.

Aldr. av. 1. p. 851. Will. orn. p. 99. t. 23.

Italiam fibi fedem præcipuam felegit Certhia muraria; rara tamen et ibi; in reliqua Europa longe rarior. In muris turrium aliorumque ædificiorum, ut plurimum, folet reptare, necem parans infectis. Solivaga est avis, nec unquam volat gregatim. Maris guttur stria seu sascianigra distinguitur. Ostenditur in tabula naturalis magnitudo.

WALL CREEPER.

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GENERIC CHARACTER.

Bill flender, incurvated, sharp-pointed.

Tongue differing in the different species.

Toes three before; one behind: claws hooked and long.

SPECIFIC CHARACTER, &c.

Grey CREEPER, with black wings and tail; the coverts rofe-coloured; the quills edged with rofe-colour.

The WALL-CREEPER, or Spider-catcher.

Will. orn. p. 143. t. 23.

Le GRIMPEREAU de muraille.

Buf. ois. 5. p. 487. t. 22.

The Certhia Muraria or Wall Creeper may be confidered as one of the rarer European birds, being very little known in any other country except Italy; and even there it is by no means common. It principally frequents towers and other edifices, creeping about the walls in quest of insects. It is a bird of a folitary nature, and is never seen in slocks. The male is distinguished by a black stripe or longitudinal patch on the throat. The plate represents it in its natural size.







TEREBELLA MADREPORARUM.

•

CHARACTER GENERICUS.

Corpus oblongum repens nudum, branchiis ad latera instructum, fæpius in tubulo.

Os anterius labiatum edentulum, proboscidem clavatam exferens.

Tentacula circum os capillaria, plura, ciliata. Lin. Syft. Nat. Gmel. p. 3112.

CHARACTER SPECIFICUS, &c.

TEREBELLA tentaculis spiraliter fasciculatis, probofcidis difco bicorni.

TEREBELLA proboscidis disco simplici terminali bicorni??

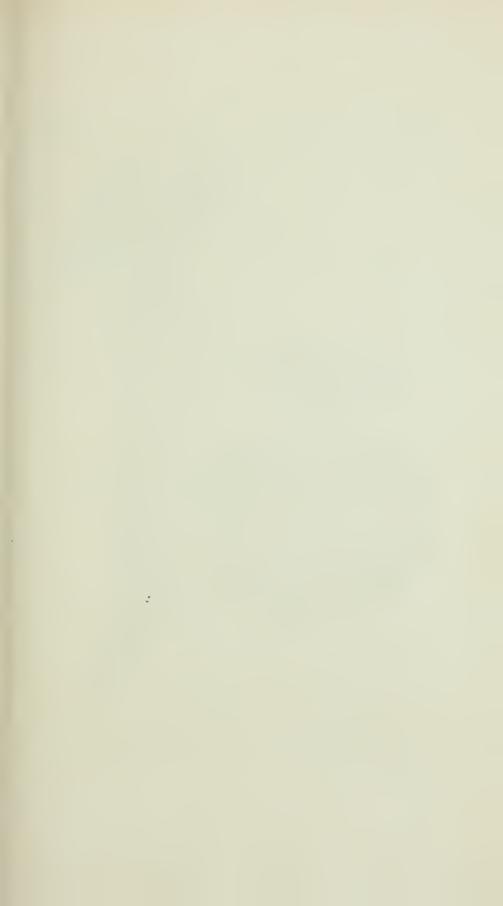
Lin. Syft. Nat. Gmel. p. 3114.

Act. Angl. tom. 75. p. 333. t. 11.

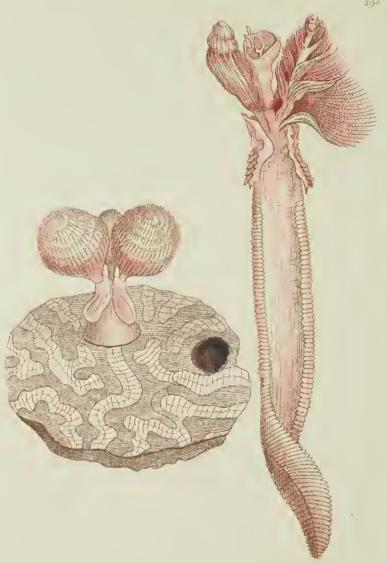
In opere hoc nostro jam antea notatum est, foramina quæ in Madreporis magnis et globofis fæpius cernuntur, non a natura originem ducere, fed ab animali aliquo fedem fibi in madrepora quærente, esse terebrata. Qui de hoc plus doceri cupit, adeat lector Actorum Anglicorum volumen feptuagesimum

L 2 quintum, quintum, in quo infigne profertur exemplum ab ingeniofo Domino Home, qui commentario suo adjecit quicquid præterea observavit celeberrimus Joannes Hunterus. Et quantum colligere possumus a sigura, quam inde in tabellam nostram transfulimus, ut melius illustraretur res de qua quæritur; censemus animal in madrepora latitans, speciem esse Terebellæ; quæ cum semel madreporam terebraverit, manet in cavo, exinde se, ut verisimile est, ad libitum protrudens, prædæstudio.

Figura prima oftendit animal e foramine exemptum. Secunda frustum madreporæ cum cellula in qua latet Terebella.







:R .A"

THE

MADREPORE TEREBELLA.

GENERIC CHARACTER.

Body oblong, repent, naked: often inhabiting a tube.

Mouth without teeth, in fome species exferting a clavated proboscis.

Tentacula feveral, capillary and ciliated; in fome fpecies fasciculated.

SPECIFIC CHARACTER.

TEREBELLA with fpirally fasciculated tentacula; the head of the proboscis furnished with two horns.

It has been already observed in the course of the present work, that the foramina which frequently appear in some of the larger globose Madrepores, are not always owing to the natural structure of the coral, but rather to the operation of some other animal, which thus forms itself a habitation in the madrepore. Of this a curious instance has been observed by the ingenious Mr. Home, whose memoir on this subject may be seen in the seventy-fifth volume

volume of the Philosophical Transactions, accompanied by some farther observations by Mr. John Hunter. From the sigure there given, and which we have here copied, as an illustration of this particular, it appears that the animal should be considered as a species of Terebella, which, when it has formed itself a hole in the madrepore, continues to reside there, and may be supposed to protrude itself occasionally from its cell in quest of prey.

Fig. 1. The animal taken out of its cell.

Fig. 2. A piece of the madrepore, with the cell in which the terebella refides.

COLUBER RUSSELII.

◇*******************

CHARACTER GENERICUS.

Scuta abdominalia.
Squamæ fubcaudales.

Lin. Syst. Nat. p. 275.

CHARACTER SPECIFICUS.

COLUBER fusco-flavescens, maculis dorfalibus ovato-acuminatis nigricantibus albo marginatis, lateralibus minoribus ovatis.

Scuta abdominalia 168. Squamæ subcaudales 59.

Longus est quasi quatuor pedes serpens quem deferibere in animo est. Capitis largiusculi pars superior squamis parvulis contegitur. Nasus obtusus.
Rictus oris amplus. Tela magna, et (quod variis
ferpentibus venenatis contingit), duplicia; minus
nempe in utraque maxilla adjacet majori. Color
eleganter susco-flavescit, ducta per totam dorsi longitudinem macularum suscarum, rhombisormium,
feu potius ovatarum serie continua, quarum medium
pallet, margines albent; quæque aliquibus in locis
confluunt, ut cernere est in tabula. Utrinque in lateribus sitze sunt maculæ ovatæ, susceptibles sits
quæ

quæ in tergo funt; et præterea transversim sparguntur aliæ vel his minores. Corpus inferius albet, scutorum seu lamellarum multarum marginibus notas aliquot suscas habentibus.

Speciem hanc primus descripsit Dominus Russelius, libri auctor de Serpentibus Indicis, quique specimine quod depinximus Museum Britannicum ditavit. Narrat Russelius in India non rarius reperiri hunc serpentem quam ipse Coluber Naja; eique vix et ne vix cedere telo venenato: suis cnim experimentis probavit vir doctus, horæ momento post morsum tricies et sex elapso, interiisse pullos gallinaceos; ipsum autem canem, exacto sere semihoræ spatio.





RN ø

RUSSELIAN SNAKE.

GENERIC CHARACTER.

Transverse *Lamellæ* under the abdomen. Broad alternate *Scales* under the tail.

SPECIFIC CHARACTER, &c.

Brownish-yellow SNAKE, with acutely-ovate blackish dorsal spots edged with white, and smaller ovate lateral ones:

Abdominal lamellæ 168. Subcaudal scales 59.

Katuka Rekula Poda.

Ruffel's Indian Serpents. p. 10. pl. 7.

The length of this remarkable fnake is about four feet: the head is rather large, and covered on its upper part with fmall fcales: the fnout obtufe: the mouth wide: the fangs large, and, (as in feveral other poisonous ferpents), double; a fmaller fang being fituated close to the larger one on each fide. The color of the animal is an elegant pale yellowish brown, marked throughout the whole length of the back with a continued chain or feries of large rhomboid, or rather oval spots of deep brown, with paler

ler middles, and narrow white edges: in some parts these spots are nearly confluent, as shewn in the sigure: on each side of the body is a row of brown oval spots, smaller than those on the back; and besides these a few still smaller transverse marks are scattered here and there on the sides: the under part of the body is white, with a sew dusky spots.

This species appears to have been first described by Dr. Patrick Russel, who presented the elegant specimen here sigured to the British Museum. Dr. Russel, in his work on Indian Serpents, informs us that it is scarce less common in India than the Coluber Naja or Cobra de Capello; and that its poison is nearly as deleterious. Its bite, according to Dr. Russel's experiments, proved fatal to chickens in thirty-six seconds, and to a dog in twenty-six minutes.

DYTISCUS PICEUS.

CHARACTER GENERICUS.

Antennæ setaceæ, aut clavato-perfoliatæ.

Pedes postici villosi, natatorii, submutici.

Lin. Syst. Nat. p. 664.

CHARACTER SPECIFICUS, &c.

DYTISCUS niger nitidus, antennis perfoliatis, flerno postice mucronato.

DYTISCUS antennis perfoliatis, corpore lævi, flerno carinato, postice mucronato.

Lin. Syst. Nat. p. 664.

HYDROPHILUS ruficornis.

Degeer. 4. p. 371. t. 14. f. 1. 2.

DYTISCUS haftatus.

Herbst. Besch, der naturf. Berl. Fr.

4. t. 7. f. 2.

HYDROPHILUS niger, &c.

Geoffr. inf. Par. 1. p. 182. t. 3. f. 1.

SCARABEE, &c.

Lyonet Less. t. 2. p. 54. n. 110. t. 1. f. 15—17.

Omnium qui in Britannia generantur maximus est Dytiscus piceus. A cæteris facillime dignoscitur, quippe

quippe qui totus nigerrimus thoracem inferiorem folus gerat mucronatum; quod non nifi paucis exoticis contingit, nulli præter hunc Britannico. Aliæ licet species magis abundent, hujus tamen nulla est penuria. Pifcinas amat aquafque stagnantes, larvaque ejus ut et aligrum Dytifcorum atrocissime prædatur teneriora infecta, nec non vermes et pisciculos, quos oris forcipibus correptos fugendo enccat. Hujus aliorumque majorum Dytifcorum juniores ab antiquioribus phyficis nomine Squillarum aquaticarum describi soliti sunt; esse enim eos revera larvas tunc temporis ignorabant. Licet inter larvas diverfarum fpecierum maxima fit fimilitudo, hujus tamen cæteris major fibi peculiare quiddam habet et anomalum, cui vix fimile in aliis animalibus invenias: crura nempe, ni penitius examinentur, non ut aliorum infectorum, fub thorace fita videntur, fed fupra, indeque ad latera deflecti. Crura autem non revera dorso inferuntur, fed oritur deceptio a peculiari quadam conformatione situque capitis; augetque deceptionem larvæ tum natantis tum quiefcentis inverfa plerumque positio; adeo ut dissicile sit vel exercitatissimo phyfico errorem femel conceptum ex animo excutere. Frischius in historia insectorum ne minimum dubitasse videtur crura reapse esse dorso inferta: et celeberrimus Reaumurius cum huic fimile aliquod in alio infecto aquatico observasset, attonitus rei novitate phænomenon unicum nec alibi uspiam confpectum commemoravit. Auctor quoque quarti voluminis Sebæ Thefauri lectores fedulo admonet. fculptorem corrigere volentem quod falso et inscite delineatum putavit, pedes hujus larvæ non fupra thoracem

thoracem fed fubtus depinxisse. Lyonettus autem, multo vir acumine, in notas quas adjecit libro Lefferi, cui titulus "Theologic des Insectes," errorem vulgarem primus videtur detexisse, et veram larvæ conformationem luculenter descripsisse.

Dytiscorum larvæ non nisi post duos? circiter annos in pupas seu chrysalidas transformantur: cum enim ad plenam magnitudinem pervenerint, in cavo aliquo ripæ latibulo torpidæ aliquandiu dormiunt; deinde cutim exuunt et chrysalides siunt. Elapso certo tempore, iterum exuviæ abjiciuntur, ipseque Dytiscus jam plene formatus erumpit; qui chrysalidis cute primum deposita, tenerrimus est et coloris pallidi; paucis vero horis elytra seu alarum tegumenta satis indurantur, colore gradatim magis magisque susce donce penitus nigraverit; et tum demum insectum nova gaudens forma, nec alias ullas vices subiturum, aquis se audacter concredit.

Mares Dytiscos distinguit a feminis crurum anticorum diversitas, quæ juxta pedum insitionem concava quadam cornea et rotundata parte velut clypeolo instruuntur, quo prorsus carent crura feminea.
Toti generi peculiaris est et miranda crurum posticorum formatio, quorum latera interiora serie pilorum longorum et densorum obsita sunt, pinnas
quodammodo referentium; quibus magnopere in
natando adjuvantur. Notandum porro est Dytiscum
seminam speciei jam depictæ exemplum præbere
artis, aliis (ut videtur) insectis coleoptratis penitus
incognitæ; telam nempe nendi complanatam, circularem, sericam, quam super aquas libere sluitantem relinquit, ibique ova sua deponit; cujusque
super-

fuperficies fuperior cornu in formam quafi coni crefcente terminatur, longo, fufco, et denfiori ipfa theca, quæ albet. Larvæ ut primum a thecæ carcere liberantur, aquis fe illico credunt. Quod mirum in historia Dytifci primus notavit Dominus Lyonettus.

Cavendum est putemus Dytiscos non posse sub dio vivere; frequenter enim per prata vagantur, in hanc vel illam aquam ad libitum se recipientes: quod cum noctu præcipue siat, non mirum est si ignoretur. Si incaute ex aquis nuda manu excipiatur Dytiscus piccus, eo est robore ut cutim mucrone thoracico interdum luctando vulneret.





THE

GREAT DYTISCUS.

GENERIC CHARACTER.

Antennæ either fetaceous or clavato-perfoliate.

Hind Feet formed for fwimming, villofe on the interior fide, and scarce perceptibly clawed.

SPECIFIC CHARACTER, &c.

Gloffy-black DYTISCUS, with perfoliate antennæ and long thoracic fpine pointing backwards.

The large Black WATER-BEETLE,

The Spiked WATER-CLOCK.

Grew. Mus. p. 170.

The infect here figured is the largest of all the British Dytisci, and is at once distinguished by its uniform blackness, and by the remarkable spine or process proceeding from the lower part of the thorax; and which, though occurring in some exotic Dytisci, is found in no other British species. It is not a very uncommon animal, though far more so than some others of the genus. It is found in ponds and stagnant waters; where its larva, like those of other

other species, commits great havoc amongst the more tender aquatic infects, as well as amongst worms and young fish, which it seizes with its forcipated jaws, and destroys by fucking out their juices. The larvæ of the larger Dytisci were defcribed by the older writers on natural hiftory under the title of Squilla aquatica; and were not at that time known to be Dytisci in their first or caterpillar state. There is a great similarity between the larvæ of the different Dytisci; but that of the present fpecies is diffinguished by a particularity fo very remarkable as fcarce to be equalled by any other creature. This confifts in the apparently anomalous fituation of the legs; which feem, unlefs very accurately examined, to be placed, not beneath the thorax, as in other infects, but on the upper part, and from thence to be deflected towards the fides. This uncommon appearance however is not owing to a real dorfal instead of ventral insertion of the legs, but principally to the peculiar shape and pofition of the head; and the deception is fo much heightened by the inverted posture in which the infeet generally fwims and rests, that it is by no means eafy even for the most scientific observer to divest himself of the erroneous idea before mentioned. Frisch, in his History of Infects, appears to have been completely convinced of the real dorfal infertion of the legs; and the celebrated Reaumur, having discovered something similar in another aquatic infect, was fo struck with the unusual appearance, that he has commemorated it as a circumstance unparalleled in the animal world. The author of the

the fourth volume of Seba's Thefaurus was of the fame opinion, and expressly warns his readers that his engraver, thinking to rectify what he supposed an erroneous drawing, has represented the legs in this larva as situated beneath the thorax, and not on the upper part. The sagacious Lyonett, in his obfervations on Lesser's "Theologie des Insectes," seems to have been the first who detected the common error, and afcertained the real structure of the animal, which he has clearly and satisfactorily explained.

The larvæ of the Dytisci remain about two? years before they change into pupæ or chryfalides. When the larva is arrived at its full growth, it fecretes itfelf in the bank of the water it inhabits, and having formed a convenient cavity or cell, lies dormant for fome time; after which it divests itself of its skin. and appears in the form of a chryfalis; in which flate having continued for fome time longer, it again delivers itself from its exuviæ, and appears in its complete or Beetle form. When first disengaged from the skin of the chrysalis, it is of a pale color, and very tender: in the space however of a sew hours, the clytra or wing-cases acquire a degree of ftrength and a dark color, which gradually grows more and more intenfe, till the animal, finding itfelf fufficiently strong, comes forth from its retreat, and commits itself in its new form to the waters.

The male Dytisci are distinguished from the semales by the structure of the fore legs, which are furnished, near the setting on of the seet, with a sort of horny, concave slap or shield: the legs of the

females are destitute of this part. The structure of the hind legs, in the whole genus Dytifcus is fingularly curious, and finely calculated for their aquatic mode of life; being furnished on the interior fide with a feries of long and close-fet filaments, fo as to give a fort of finny appearance to the legs, and to enable the animal to fwim with the greatest ease and celerity. It may be added that the female of the Dytifcus piceus affords an example of a faculty which feems to be exercifed by no other coleopterous infects; viz. that of spinning a kind of web or flattish, circular case of filk, which it leaves floating on the furface of the water, and in which it deposits its eggs: this cafe is terminated on its upper furface by a lengthened, conical process resembling a horn; of a brown color, and of a much stronger or denser nature than the case itself, which is white. The young larvæ, as foon as hatched, make their escape from the envelopement of the case, and commit themselves to the water. This curious particular in the history of the Dytiscus piceus was first discovered by Lyonett.

It is not to be imagined that because the Dytisci are so generally seen in the water, they are therefore incapable of living in air: on the contrary, they sometimes emerge, and fly about the fields, and thus migrate from water to water: but as this happens chiefly by night, it is not generally observed.

The Dytifcus piceus is an infect of great strength, and if incautiously handled when taken out of the water, will struggle in the hand with so much force as sometimes to wound the skin with its thoracic spine.

TANTALUS GANGETICUS.

CHARACTER GENERICUS.

Rostrum longum, subulatum, teretiusculum, subarcuatum.

Facies ultra oculos nuda.

Lingua brevis, lata.

Saccus jugularis nudus.

Nares ovatæ.

Pedes tetradactyli, basi palmati.

Lin. Syst. Nat. p. 240.

CHARACTER SPECIFICUS, &c.

TANTALUS albus, tectricibus alarum remigibufque nigricantibus, uropygio rofeo.

TANTALUS leucocephalus.

Lath. ind. orn. 2. p. 706. Lin. Syft. Nat. Gmel. p. 649.

In India innascitur Tantalus Gangeticus; magnitudine Ciconiam æquans vel superans. In Ceylonia quoque, aliisque insulis indicis conspicitur. Rostrum slavum. Pedes carnei.

THE

GANGETIC IBIS.

GENERIC CHARACTER.

Bill long, thick at the base, incurvated.

Face, and sometimes the whole head, naked.

Nostrils linear.

Tongue short.

Toes connected at the base by a membrane.

SPECIFIC CHARACTER, &c.

White IBIS, with the wing-coverts and remiges blackish; the tail-coverts rose-coloured.

White-headed IBIS.

Pennt. Ind. Zool. p. 47. t. 11. Lath. Syn. 3. p. 116.

The Gangetic Ibis is a native of India, and is also found in Ceylon and other Indian islands. In fize it is equal, or rather superior to the common Stork. The bill is yellow: the legs pale rose-color.





LERNÆÆ.

�*****************

CHARACTER GENERICUS.

Corpus fe affigens tentaculis, oblongum, teretiufculum.

Ovaria bina, tanquam totidem caudæ. Tentacula brachiformia duo feu tria.

Lin. Syft. Nat. p. 1092.

CHARACTERES SPECIFICI, &c.

LERNÆA radiata.

L. corpore quadrato depresso, brachiis utrinque tribus, cornubus quatuor rectis.

Müll. 2001. dan. 1. p. 122. n. 57. t. 33. fig. 4.

Lin. Syft. Nat. Gmel. p. 3146. Habitat in Coryphænæ rupestris oris angulis.

LERNÆA gobina.

L. corpore rhomboidali, brachiis duobus anterioribus totidemque posterioribus nodosis, cornubus duobus arietinis.

Müll. 2001. dan. 1. p. 121. t. 33. fig. 3. Lin. Syst. Nat. Gmel. p. 3145.

Habitat in Cotti Gobionis branchiis.

N 2 LERNÆA

LERNÆA nodofa.

L. corpore quadrato tuberculato, brachiis fubtus breviffimis utrinque duobus.

Müll. 2001. dan. 1. p. 123. n. 58. t. 33.

Lin. Syst. Nat. Gmel. p. 3146. Habitat in Percæ Norwegicæ rictu.

LERNÆA cornuta.

L. corpore oblongo, brachiis quatuor rectis emarginatis, capite fubovato.

Müll. zool. dan. 1. p. 124. n. 59. t. 33. fig. 6.

Lin. Syst. Nat. Gmel. p. 3146. Habitat in Pleuronectis Platessa et Linguatula.

LERNÆA pectoralis.

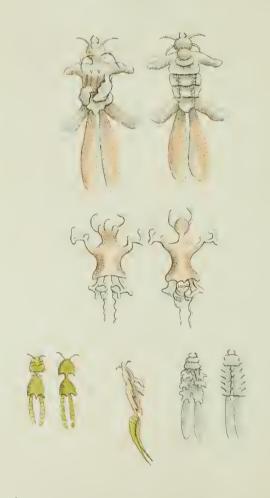
L. capite orbiculato hemisphærico, abdominis obcordati papilla terminali truncata.

Müll. 2001. dan. 1. p. 125. n. 60. t. 33. fg. 7.

Lin. Syst. Nat. Gmel. p. 3146. Habitat in Pleuronectarum et Æglefini pinnis.

Piscium corporibus affigunt se Lernææ, branchiis præcipue et pinnis adhærentes. Depinguntur species in tabula vera magnitudine juxta ipsam naturam.





d

LERNÆÆ.

©\$\$\$\$\$\$\$\$\$\$\$

GENERIC CHARACTER.

Body oblong fomewhat cylindric, affixing itself by tentacula.

Ovaries two, refembling tails.

Tentacula refembling arms, two or three in number on each fide.

SPECIFIC CHARACTERS, &c.

Radiated LERNÆA.

LERNÆA with fquare depressed body, three pair of arms and four strait horns.

It is found about the mouth of the Coryphæna rupestris.

Gobian LERNÆA.

LERNÆA with rhomboid body, two nodose anterior and posterior arms, and two curved horns.

It is found on the gills of the Cottus Gobio.

Knotty LERNÆA.

LERNÆA with fquare tuberculated body, with two very fhort ams beneath on each fide.

Found in the mouth of the Perca norvegica.

Horned

Horned LERNÆA.

LERNÆA with oblong body, four ftrait emarginated arms, and fubovate head.

Found on the Plaife, &c.

Pectoral LERNÆA.

LERNÆA with orbiculated hemispheric head and obcordate abdomen with a terminal truncated papilla.

Found on the gills and pectoral fins of Flounders, &c. &c.

The Lernææ affix themselves to the bodies of fish; adhering principally to the branchiæ and fins. The species sigured on the annexed plate are all represented in their natural size.

BULLA? OCCIDUA.

O++**************

CHARACTER GENERICUS.

Animal Limax.

Testa univalvis, convoluta, inermis.

Apertura coarctata, oblonga, longitudinalis.

Columella obliqua, lævis.

Lin. Syft. Nat. p. 1181.

CHARACTER SPECIFICUS, &c.

BULLA? (Helix?) ovato-oblonga, crassa, albida, spira obtusa, labio purpureo.

HELIX oblonga. H. testa perforata ovato-oblonga, striata, labro columellaque roseis.

Müll. Hist. Verm. p. 86. n. 284.

PSEUDO-AURIS MIDÆ, testa ovali oblonga, fubumbilicata, tumida, crassa, anfractibus fex ventricosis, apice obtuso, labro et labio roseis, apertura ovata integerrima.

Martini. Vol. 9. p. 30. t. 119. fig. 1022. 1023.

BUCCINUM admodum craffum, &c. &c.

List. conch. t. 23. fig. 21. &c.

t. 1055. fig. 1.

COCHLEA

COCHLEA terrestris Americana Plumieri.

Lift. it. Par. p. 74. t. 3.

HELIX oblonga.

Born. Muf. Cæs. Vind. test. t. 15. fig. 21. 22.

HELIX oblonga.

Lin. Syst. Nat. Gmel. p. 3637.

COCHLEÆ lævæ.

Seb. Mus. 3. t. 71. fig. 17-20.

Facie formaque generali affinis admodum est Bulla Occidua perpulchræ Bullæ achatinæ, quam in hoc opere jam depinximus. Ab illa tamen facile dignosci possit, quod crassior multo sit, labio non tenui, quale est Bullæ achatinæ, sed circa testæ hiatum solidam in marginem ducto. Differt quoque colore; nam alba paulatim fubflavet, labio pulchre roseo, (quo etiam leviter inficitur interna testæ superficies,) caretque omnino eleganti illa variatione qua decoratur Bulla achatina. Terrestris est species, et in variis Americæ meridionalis partibus non raro reperitur, nec non in infulis Americanis feu occiduis. Animal testam incolens helici communi fimillimum est. Color est cinereus, umbris striisque huc illuc obscurioribus et lucidioribus variatus, et in aliquibus partibus fub-cæruleo et rofeo commistus. Viro celeberrimo Carolo Plumiero, quem circiter finem sæculi jam elapsi merito insigniverunt **f**cripta fcripta quæ congessit de naturali novi orbis historia, de botanice præcipue, siguram archetypam debemus, quam in tabula imitati sumus, quamque cum Listero in Lutesia Parisiorum agente, communicavit Plumierus. Ova quæ deponit Bulla occidua putamine calcario conteguntur, et tum forma tum magnitudine ad ovorum passeris vulgaris similitudinem tam prope dicuntur accedere, ut ab iis vix ac ne vix possint distingui.

OCCIDENTAL BULLA.

GENERIC CHARACTER.

Animal refembling a Limax or Slug.

Shell univalve, convoluted.

Aperture fomewhat straitened, oblong, longitudinal, entire at the base.

Column oblique and fmooth.

SPECIFIC CHARACTER, &c.

Ovate-oblong thick BULLA? (Helix?) with obtuse spire, and purple lip.

The Rofe-lipped SNAIL.

Rose-mouthed BULLA.

Surinam SNAIL.

Oviparous SNAIL.

Der Rosenmund. | Martini. Kol. 9. p. 30. t. 119. Roodlip. | fig. 1022. 1023.

FAUSSE Oreille de Midas.

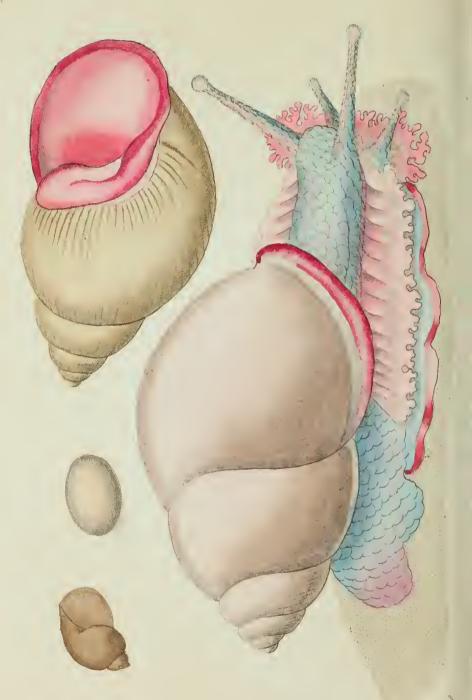
Davil. Cat. 1. p. 134. n. 166.

Der rofenmundige SCHNIRKEL.

Born. Muf. Cæf. p. 381. t. 15. fig. 21. 22.

La





La FAUSSE Oreille de Midas.

Favanne conch. t. 65. fig. 1.

Surinam HELIX.

Cat. Muf. Port. p. 55. n. 1299. p. 39. n. 933. p. 82. n. 1835. p. 174. n. 3745.

In its general appearance this shell is very nearly allied to the beautiful species called Bulla achatina, already figured in the prefent work: it is however readily distinguished by its far thicker or more folid fubstance, by the lip or edge, which instead of being thin, as in that shell, forms a strong ridge or border round the opening, and by its total want of the beautiful variegations fo conspicuous on the surface of the Bulla achatina; being merely of a dull white, with the border or lip before-mentioned of an elegant purple or rofe-color: the infide of the shell has also a slight tinge of the same color. It is a terrestrial species, and is not very uncommon in feveral parts of South America, as well as the West The inhabiting animal, which Indian Islands. bears the most striking resemblance to the common fnail, is of a cinereous color, varied with lighter and darker shades and streaks; with a tinge of blueish and rose-color on some parts. It is to the celebrated Father Plumier, fo distinguished towards the latter part of the last century for his researches into

the natural history of the new world, and more particularly in the botanical department, that we owe the original of the elegant representation on the present plate; the drawing having been communicated by Plumier to Dr. Lister during the time of his residence in Paris.

The eggs which this animal deposits are covered with a hard calcareous coating, and are said to refemble those of the common sparrow to such a degree as to be scarce distinguished from them.



PAPILIO DIOMEDES?

◇\$\$

CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavatocapitatæ.

Alæ fedentis erectæ furfumque conniventes, (vo-latu diurno).

Lin. Syst. Nat. p. 744.

CHARACTER SPECIFICUS, &c.

PAPILIO caudatus niger, alarum disco inæqualiter cæruleo-radiato, macula nigra rotundata; posterioribus lunulis marginalibus cæruleis.

An Var. P. Ulyssis?

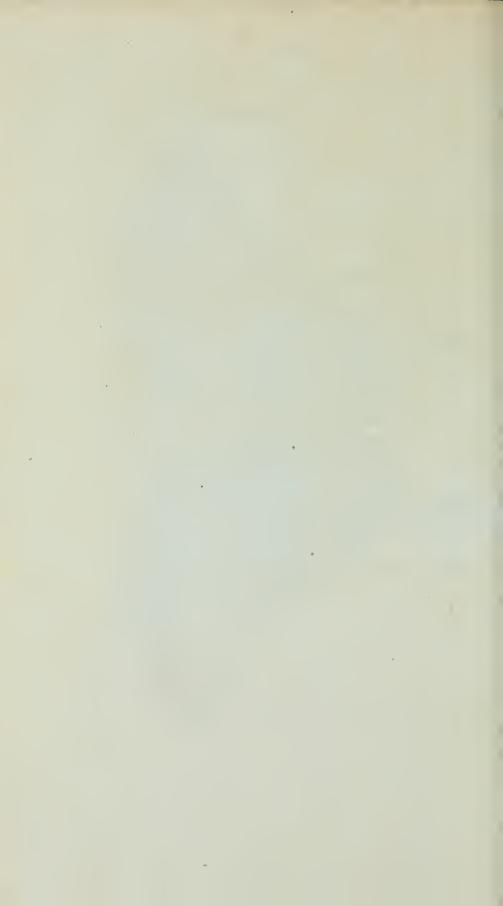
Papilio DIOMEDES.

Cram. inf. t. 122. A.

Pap. DIOMEDES???

Lin. Syst. Nat. p. 749. Lin. Syst. Nat. Gmel. p. 2236.

Indiam incolit pulcherrimus hic Papilio, magnitudine naturali in tabula depictus.



DIOMEDES?

GENERIC CHARACTER.

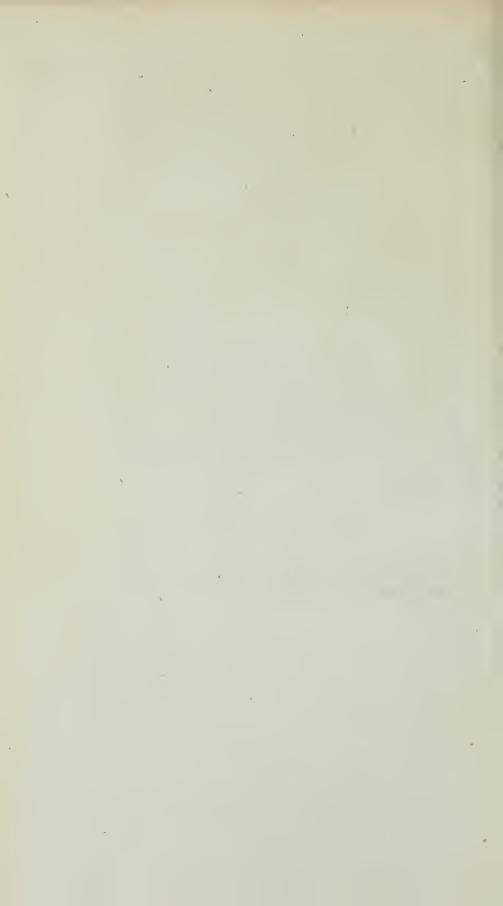
Antennæ thickening towards the upper part and generally terminating in a knob.

Wings (when fitting) erect and meeting upwards. (Flight diurnal.)

SPECIFIC CHARACTER.

Caudated black BUTTERFLY, with the disc of the wings unequally radiated with blue, with a round spot of black: the lower wings marked by a row of blue crescents round the margin.

This most beautiful Insect is a native of India, and is represented on the plate in its natural fize.



CASUARIUS GALEATUS.

CHARACTER GENERICUS.

Rostrum depressum, rectum, subconicum.

Nares ovatæ.

Alæ brevissimæ, volatui inutiles.

Femora in parte inferiore denudata.

Pedes tridactyli, digitis omnibus anticis.

Cauda nulla.

Lath. ind. orn. p. 664.

CHARACTER SPECIFICUS, &c.

CASUARIUS niger, vertice galeato, collo purpureo-cæruleo, palearibus rubris.

-EMEU.

Will. orn. 105. t. 25.

Struthio CASUARIUS.

Lin. Syft. Nat. p. 265.

CASUARIUS Emeu.

Lath. ind. orn. p. 664.

In infulis Indiæ orientalis præcipue conspicitur Casuarius galeatus, vel ipsi Struthio-camelo magnitudine parum cedens. Cum alarum loco scapos

O aliquot

aliquot nudos, breves, acuminatos utrinque gerat, volandi omnino infcius est. Pennæ totius avis sunt valde graciles, laxe plumatæ, et veluti duplices; duæ nempe ab eadem basi oriuntur. Si cum hac avi comparetur Casuarius australis, quem in hoc opere jam depinximus, facile patebit species inter se omnino esse diversas.





GALEATED CASSOWARY.

GENERIC CHARACTER.

Bill depressed, strait, nearly conical.

Wings extremely small, and unsit for slight.

Feet tridactylous, with all the toes standing forwards.

SPECIFIC CHARACTER, &c.

Black CASSOWARY, with galeated head, and purple carunculated neck, with red wattles.

The CASSOWARY or EMEU.

Will. orn. p. 151. pl. 25.

Galeated CASSOWARY.

Lath. fyn. 3. p. 10. pl. 72.

EMEU.

Robert icon. t. 4.

Le CASOAR.

Brifs. av. 1. p. 10. pl. 1. f: 2. Buf. ois. 1. p. 464. Pl. enl. 313.

The Cassowary is principally found in the East-Indian islands: in fize it is but little inferior to the O 2 offrich:

offrich: it is totally destitute of the power of flight, being furnished only with a few strong, short, sharp-pointed shafts or naked quills in the place of wings: the feathers throughout the whole bird are of a very slender form, loosely webbed, and double; i.e. two proceeding from the same base or root. The Australasian or New Holland Cassowary has been already described in the present work, and from a collation of the figure of that bird with the present, it will readily appear that the two species are persectly distinct from each other.

DIDELPHIS OBESULA.

•**********

CHARACTER GENERICUS.

Dentes numerosi, parvi.
Folliculus abdominalis. (feminæ.)

CHARACTER SPECIFICUS.

DIDELPHIS subferruginea, subtus albescens, cauda longiuscula, pedibus anticis pentadactylis, ungue exteriore utrinque brevissimo; posticis tetradactylis, digitis interioribus unitis.

Macropi potius quam Didelphidis species.

Australasiam incolit hæc species, crassior et pinguior reliquis congeneribus. Crura posteriora anterioribus longiora, pedesque eodem fere more formati quo pedes Macropi gigantei, vulgo Kanguroo nominati; licet minor longe sit digitus intermedius pro rata proportione pedis. Digiti duo interiores utrinque conjuncti, seu cute communi vestiti. Magnitudo animalis eadem prope est ac muris Ratti Linnæani, semiadulti. Color pallido-susco-flavescit. Pilus crassior et asperior quam aliarum plerarumque minorum Didelphidum. Aures rotundatæ. Cauda

longiuscula. Si obiter et in transitu aspiciatur hæc Didelphis, non absimilis videtur porcello minutulo. Hanc speciem primo observavi in Museo celeberrimi Joannis Hunteri, unde figura hæc nostra vera magnitudine depingitur. Iconas quoque nonnullas vidi quas depingi curaverat Dominus White, coloniæ Britannicæ, vulgo dictæ Botany Bay, chirurgus primarius; quique specimen supra dictum Domino Huntero donavit.





THE

PORCULINE OPOSSUM.

GENERIC CHARACTER.

Teeth numerous, fmall.

Abdominal Pouch in the female.

SPECIFIC CHARACTER.

Subferruginous OPOSSUM, whitish beneath, with longish tail; the fore-feet pentadacty-lous with very small exterior claws; the hind-feet tetradactylous with the two interior toes united.

In reality it is more properly a species of Macropus than Didelphis.

This species, hitherto undescribed, is a native of New Holland, and is remarkable for a thicker or more corpulent habit than others of the genus. The hind legs are considerably longer than the fore-legs, and have, in miniature, the form of those of the Kanguroo and some other Australasian quadrupeds; though the middle claws are far less in proportion: the interior ones are double, or both covered by a common skin. The size of this species is nearly

that of a small or half-grown domestic rat. Its color is a pale yellow-brown, and its hair is of a coarser or more harsh appearance than in the rest of the smaller Opossums: the ears are rounded: the tail rather long. When viewed in a cursory manner the animal bears a distant resemblance to a pig in miniature. I first observed this species in the Museum of the late Mr. John Hunter, and from the specimen there preserved the present sigure is taken. It is represented in its natural size. I have also seen drawings of the same species in the collection of Mr. White, Chief Surgeon to the Settlement at Botany Bay, who presented the above-mentioned specimen to Mr. Hunter.

MEDUSA PULMO.

CHARACTER GENERICUS.

Corpus gelatinosum, orbiculatum, depressum. Os subtus, centrale.

Lin. Syst. Nat. p. 1096.

CHARACTER SPECIFICUS, &c.

MEDUSA hemisphærico-concava, margine fimbriato, subtus striata, caudice quadrifenestrato, brachiis octo.

Macri observ. del polm. mar. p. 34. t. 1. Lin. Syst. Nat. Gmel. p. 3155.

PULMO marinus Matthioli.

Aldr. zooph. p. 575. fonst. anim. exang. t. 19. Seb. mus. 3. t. 1. fig. 2.?

PULMO marinus.

Matthiol. in Diofcor. Venetiis. 1583. p. 310.

Speciem hanc Dominus Macri quam diligenter descripsit in hunc modum.
" Corpus

"Corpus totum gelatinofum, pellucidum, cryftallinum, durum, tenax, uniforme, nitidum, cærulefcens: Pileo maximo, hemifphærico-concavo, quasi usque ad caudicis extremitatem extenso, supra lævi, subtus cavo, striato, striis numerosis, concentricis, proximis, a sexdecim, ut plurimum ligamentis, distantibus, ramum unum brevissimum utrinque emittentibus, longitudinaliter dissectis: Margine tenui, subtili, membranaceo, simbriato, simbriis subrotundis, sature cæruleis, multis, vicinis, lævibus, nitidis, sensim ut ad centrum accedit crassiori, et ad centrum crassissimo.

Pilei centro adnatus defcendit caudex maximus, crassissimus, tetragonus, lævis, versus finem attenuatus, in origine 4-senestratus, fenestris lateralibus, magnis, subpatentibus, semiovalibus, inferne lobo lævi majore, superne minori et opposito donatis.

Rami octo ab ima caudicis parte prodeuntes, magni, æquales, subcylindracei, pendentes, anterius et lateribus læves, posterius semper crispi.

Appendices fexdecim, fubtrigonæ, mediocres, liberæ, æquales, veluti coronam circa caudicis finem constituentes, anterius bisidæ, latere superiori plano densarum rugarum terminatæ, origine uniuscujusque rami adnatæ, una utrinque.

Rami definunt in totidem pendentes, magnas, æquales, branchias, fubpyramidales, lateribus duobus anterioribus multum extantibus, proximis, plano densarum rugarum terminatis, fuperficiebus læviffimis, latere posteriori sive interno, remoto, minus exstante, rugoso, plicis ramorum continuato.

Branchiæ abeunt in octo oblonga, fubtrigona,

pendentia, æqualia corpora, magna, crassa, lævia, in plana tria membranacea acuta, parum distantia, desinentia, singulum unicuique lateri, in extremitate in acumen coalita.

Intra fingulam fenestram adest fascia striata, serpentina, flavo-cærulescens: an genitalia?

Mirabile visu, hoc animal ore, arteriis, venis, nervis, (nisi strias, et ligamenta nervorum munus obire censeas) musculis, cerebro, medulla spinali, cordeque destitutum, vivere, nutriri, moveri, cresci, multiplicari!"

Habitat in mari Tyrrheno.

THE

PULMONIC MEDUSA.

O**********************

GENERIC CHARACTER.

Body gelatinous, orbicular, commonly depressed. Mouth central, beneath.

SPECIFIC CHARACTER.

Hemispherically-concave MEDUSA with fimbriated border; striated beneath; the body or stem furnished with four openings and eight arms.

This curious fpecies of Medusa is very accurately described by Dr. Macri, nearly as follows, viz.

The whole is gelatinous, pellucid, crystalline, hard, tenacious, uniform, glossy, and blueish: the pileus or head is very large, hemispherically concave, and extended as it were to the extremity of the stem; it is smooth above, hollow beneath, and marked with numerous, concentric, approximated striæ, which are cut or traversed by sixteen distant ligaments, each emitting a very short branch on each side: the border is thin, sine, membranaceous, and





fimbriated with numerous roundish, smooth, approximated, blue fcallops: the head gradually thickens as it approaches toward the centre, where it is very thick; the body or stem, which descends from the head or pileus, is very large and thick, and is of a tetragonal form, fmooth, attenuated towards the extremity, and furnished at its origin or upper part with four large, femi-oval, lateral windows or openings, each of which has a fmooth and large lobe above, and a fmaller opposite one below. From the lower part of the stem or body proceed eight large, equal, fubcylindric, pendent branches or arms, which are fmooth in front and on the fides, but are always crifped or wrinkled behind: there are also fixteen appendices, of a moderate fize, and of a fubtrigonal form, hanging loofe, and constituting as it were a kind of crown round the extremity of the body: these parts are bifid in front, and terminated on the upper fide by a flat, thickly-wrinkled furface; they arise from the beginning of each branch, one on each fide.

The branches end in as many large, pendent, equal, subpyramidal branchiæ, with their two exterior sides very prominent, and terminating in a flat thickly-wrinkled surface: on their hinder or inner side less prominent, rugose, and continued into the plicæ of the branches: these branchiæ end in eight oblong, subtrigonal, pendent, large, thick, smooth bodies, terminating in three slat, acute, membranaceous pieces, and hanging at small distances from each other. Within each of the windows or

openings is a kind of flexuous or ferpentine, flriated fascia, of a mixed blue and yellow tinge.

Dr. Macri concludes his description by observing that it is wonderful that an animal apparently destitute of mouth, arteries, veins, nerves, muscles, brain, spinal marrow, and heart, should live, move, increase, and multiply!

It inhabits the Tufcan fea.

PHALÆNA AUGUSTA.

CHARACTER GENERICUS.

Antennæ fetaceæ, a basi ad apicem sensim attennatæ.

Alæ (fedentis) fæpius deflexæ. (Volatu nocturno.)

Lin. Syst. Nat. p. 808.

CHARACTER SPECIFICUS, &c.

PHALÆNA alis primoribus falcatis fufcis, striga figmoidali pallida, posterioribus nigris macula magna rubra medio alba.

PHALÆNA Confpicillator.

Cram. 2. p. 1. t. 97. A. B.

In rarissimis phalænis exoticis numeratur ea quam in infula Amboyna generatam magnitudine naturali ostendit tabula. Alarum anticarum superficies inferior striis aliquot seu nubeculis albidis, in longitudinem ductis notatur; habentque nonnulla specimina superficiem superiorem stria obliqua distinctam, quæ ipsis alis pallidior prope apices eas utrinque sascia decorat.

AUGUSTA.

◇**********************

GENERIC CHARACTER.

Antennæ setaceous, decreasing in size from the base to the point.

Wings, when at rest, generally deflected. Flight mostly nocturnal.

SPECIFIC CHARACTER.

PHALÆNA with falcated brown upper wings, with a pale figmoid streak, and black lower wings with a large red spot, white in the middle.

The elegant infect here represented in its natural fize is confidered as one of the rarest of the exotic Phalænæ. It is principally found in the island of Amboyna. The under surface of the superior wings is marked by a few whitish, longitudinal streaks; and in some specimens an oblique streak of a paler color than the rest of the wing is seen on the upper surface; forming a band towards the tip of each wing.





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258. Psittacus pallidus.

286. Scarus viridis.

283. Scrpula vermicularis.

267. Squalus Zygæna.

274. Stylephorus chordatus.

293. Tantalus Gangeticus.

290. Terebella Madreporarum.

287. Testudo imbricata.

276. Trichechus Rofmarus.

278. Vorticella polypina.

273. Roller Indian.

286. Scarus green.

266. Snake fasciated.

291. Snake Russclian.

267. Shark hammer-headed.

274. Stylephorus chordated.

283. Serpula vermicular.

290. Terebella Madrepore.

287. Tortoife imbricated.

278. Vorticella arborescent.

276. Walrus Arctic.













